

The



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JANUARY 9 1954

**a satisfied customer
ensures
repeat sales**



The antispasmodic and sedative properties of 'Zephrol' — the **M&B** brand cough syrup containing ephedrine — make it a useful preparation for the suppression of irritant coughs, and for the relief of that feeling of chest constriction so often experienced in such conditions as bronchitis and asthma.

Its pleasant fruit flavour makes 'Zephrol' particularly acceptable to children, in whom it is of value for whooping cough. Once tried, your customers will remember 'Zephrol' when coughs again threaten their household.

'Zephrol' is supplied in attractively cartoned bottles of 2½ fl. oz., retail price 2s. 6d. plus purchase tax. Bonus terms of 13 to the dozen make 'Zephrol' an attractive counter line for the pharmacist.

'ZEPHROL'

trade
mark
brand

EPHEDRINE COUGH SYRUP

for the rapid relief of coughs

An M&B brand
Medical Product



MANUFACTURED BY
MAY & BAKER LTD

*EFFECTIVE · *SAFE · *PLEASANT TO TAKE

MA1330

DISTRIBUTORS: PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD · DAGENHAM

TOTAL SYNTHESIS OF TROPANE ALKALOIDS

Atropine, homatropine, and their salts are now available in unlimited quantity as a result of the successful establishment of synthesis on a full commercial scale in the laboratories of T. & H. Smith Ltd.

Since the discovery of atropine by Vaquelin in 1809, and its recognition as an alkaloid by Brandes in 1819, the world's requirements of tropane alkaloids have been obtained by the exploitation of naturally occurring, vegetable raw materials. It is fitting that a company with over one hundred years experience in manufacturing from such sources should be the first to achieve large-scale production of tropane alkaloids by an economically sound, synthetic route.

The advantages of this achievement are important. Dependence upon crops subject to the vagaries of climate is avoided and continuity of supplies can thus be assured. In addition, the resultant price levels are favourable and less likely to fluctuate. The range of products presently offered as a direct result of the synthesis now announced is as follows:—

**Atropine Alkaloid, Hydrochloride, Methylbromide,
Methonitrate, and Sulphate.**

**Homatropine Alkaloid, Hydrobromide, Hydrochloride,
Methylbromide, Methonitrate, and Sulphate.**

The synthetic products conform to the same official standards as those produced from natural sources.

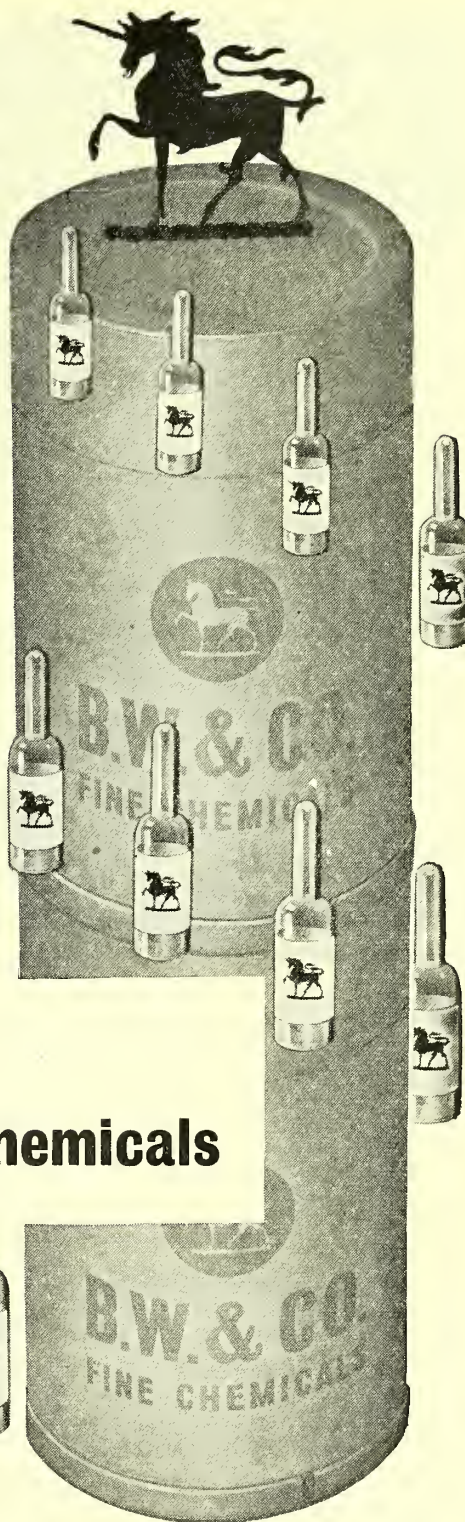
T. & H. SMITH LTD.

BLANDFIELD CHEMICAL WORKS - EDINBURGH - SCOTLAND

Established 1827

Tons or grammes ...

Whether your requirements are several tons of a drug of liberal dosage or a few grammes of a potent alkaloid, you can always be assured of equally high standards of purity and quality by buying 'B. W. & Co.' Inquiries are invited for:— Adrenaline (base and bitartrate), Atropine (alkaloid and sulphate), Benzamine Salts, Bismuth Salts, Carbachol, Cinchophen, Digitalin Amorphous, Diphenan, Emetine Hydrochloride and E.B.I., Ephedrine and Salts, Ergometrine Maleate, Methylephedrine Hydrochloride, Homatropine (alkaloid and salts), Hyoscine Hydrobromide, Isoprenaline Sulphate, Ouabain, Physostigmine Salts, Pilocarpine Salts, Strophanthin-K, Sulphaguanidine and many other alkaloids and glycosides.



you can depend on

B.W. & CO. fine chemicals



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.)
Chemical Sales Division, 183-193, Euston Road, LONDON



The manufacturers of
DETTOL submit
the following facts to your attention

Wide mention in medical literature has made Dettol a text-book antiseptic. Wide clinical use has attested the efficiency of Dettol in literally millions of cases which range from minor accident to major operation.

EFFICIENCY

Dettol is an efficient antiseptic which, moreover, retains a high degree of efficiency in the presence of organic matter.

TOLERATION

Dettol is well tolerated on the skin and tissues in high concentrations. Moreover, its non-toxicity offers a high degree of safety to doctor, nurse and patient.

STRENGTH

The fact that Dettol is well tolerated by the tissues permits dilutions to be recommended for clinical purposes which provide a margin of safety even when a reasonable amount of organic material is present.

ACTIVITY

Dettol is active against both Gram-positive and Gram-negative micro-organisms.

Under standard conditions of test a dilution of 1 in 200 kills Staph. aureus in 10 minutes; a 1 in 500 dilution kills Strept. pyogenes in 10 minutes.

COMPATIBILITY

Dettol is not incompatible with soap, traces of which need not be removed before application.

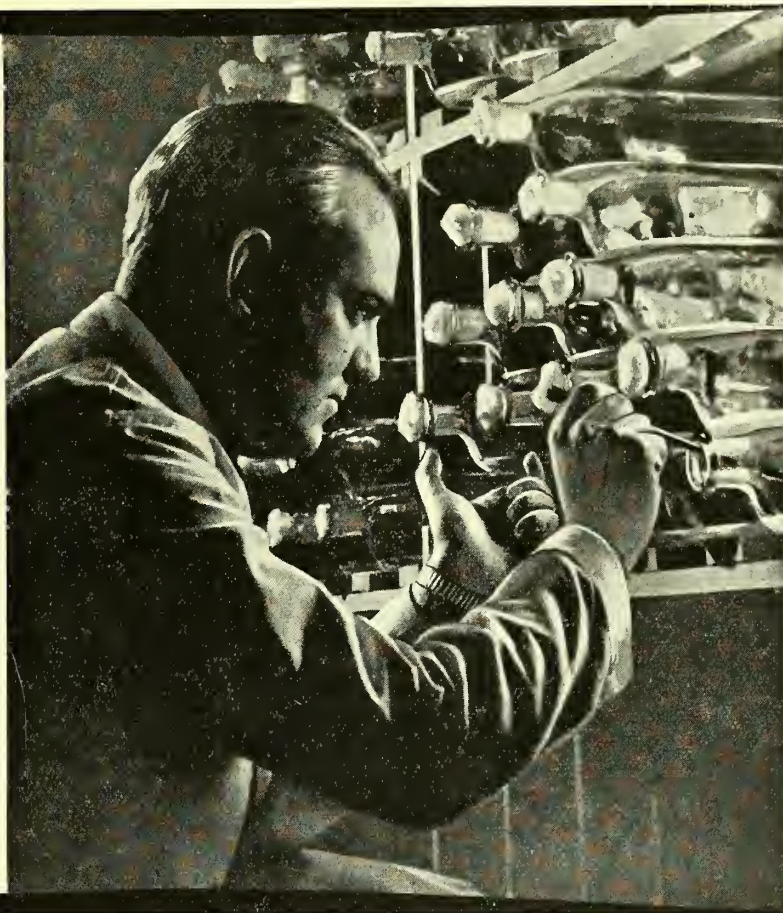
PLEASANTNESS

Dettol is non-poisonous, safe, pleasant and economical in use. It has an agreeable smell.

DATA

Bacteriological data and the literature of Dettol are available on request. Dettol is packed in 2 and 5 gallon, Purchase Tax free Dispensing containers.

An
EVANS
 contribution to
**VETERINARY
 MEDICINE**



THE EFFICACY OF specific antitoxins in the prevention of lamb dysentery is now well established. Whilst Evans have prepared lamb dysentery serum for many years, new methods and refinements are constantly being introduced to ensure that the best possible product is available to the veterinary surgeon. Important features of the preparation of Evans lamb dysentery serum include:—

- 1 *The growing of highly toxigenic strains of C1. welchii Type B and D on special media to ensure potent toxins and toxoids for horse antigens.*
- 2 *Immunisation of selected horses by carefully graduated doses of toxoid and toxin to obtain the maximum yield of antitoxin.*
- 3 *Treatment of the natural serum by modern techniques to obtain a highly concentrated product.*
- 4 *Stringent laboratory tests for potency, sterility and freedom from toxicity.*

LAMB DYSENTERY SERUM **EVANS**

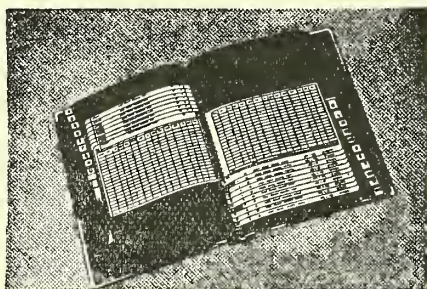
EVANS MEDICAL SUPPLIES LTD

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OVERSEAS ESTABLISHMENTS : BERNE · BOMBAY · CALCUTTA · DUBLIN · JOHANNESBURG · KARACHI · MADRAS · MELBOURNE
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CHEMISTS!

Simplify your routine records



FULL DETAILS ON REQUEST

A chemist's life is one of the hardest . . . so many lines to stock, so many suppliers, so many bills and such small margins of profit!

A chemist needs more book-keeping, stock-taking and clerical records than most other businesses. Yet your business won't support expensive clerical labour. So what is the answer?

First, a neat compact book that will hold hundreds of records. Second, *visible* records that can be seen without searching—and referred to or entered up in a flash.

What sort of records are needed?

They vary, of course, with every business. But all chemists want stock-cum-purchase records, complete with prices, discounts, dates, order numbers, etc.—because such a record is the backbone of the chemist's business. He needs to see how stocks are, what lines need re-ordering, what lines are selling well or hanging fire. And he ought to keep track of what money he pays out and what comes in.

The whole difficult problem has now been investigated and the right records created for chemists *by* chemists. There is a Shannoleaf record especially designed for chemists. It has a visible edge showing the commodity, price, place in shop, etc., and signalled as to whether stocks are high or low, on order, overdue for delivery, etc., and there are columns for dates of orders, order numbers, quantities, prices (wholesale and retail), discounts, cash discounts, carriage, margin of profit, when deliveries are made . . . and so on.

Every good chemist who wants to eliminate inefficiency should learn all about Shannoleaf records. And this is easy enough. Just jot "Shannoleaf for Chemists" on your letter-heading for full details.

Shannon Systems

FIRST IN FILING

THE SHANNON LTD.,
118 Shannon Corner, New Malden,
Surrey



NEW YEAR 1954

*To all our Friends
we wish you every
Success and
Prosperity for the
Coming Period*

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PRICE REDUCTIONS

ELI LILLY & CO. LTD.,

Announce the following changes in the price and packaging of 'NEOLIN' Oral Suspension as from Monday, January 11th 1954.

As from that date this product will be issued in bottles of 60 cc. in place of the former package of 2 fluid ounces. The net trade price to the retail pharmacist will be 15/- for 60 cc., as compared with the former net trade price of 18/9 for 2 fluid ounces.

Claims from retail pharmacists for rebate on any stock held at the close of business on Saturday, January 9th 1954 should quote the batch number on the label, and should be made before Monday, January 18th direct to Eli Lilly & Co. Ltd.

Lilly
TRADE MARK

ELI LILLY & COMPANY LIMITED
BASINGSTOKE - - HANTS


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PRICE REDUCTION

*Pfizer Ltd., announce
the following price reduction for*

 **Permapen**
ORAL SUSPENSION

the Pfizer brand of N,N'-Dibenzylethylenediamine dipenicillin G

as from 11th January 1954


Permapen Oral Suspension, Bottle of 60 c.c. ...

Old Price	New Price
18/8	15/-

The above are prices to the retail trade.

Applications for credit on stocks held at closing time on January 9th should quote batch numbers and be made to Pfizer Ltd. **within seven days.**

Full literature is available and
will be supplied on request.

 *World's Largest Producer of Antibiotics*

P F I Z E R L T D · F O L K E S T O N E · K E N T

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From the Carnegie Range of Fine Chemicals

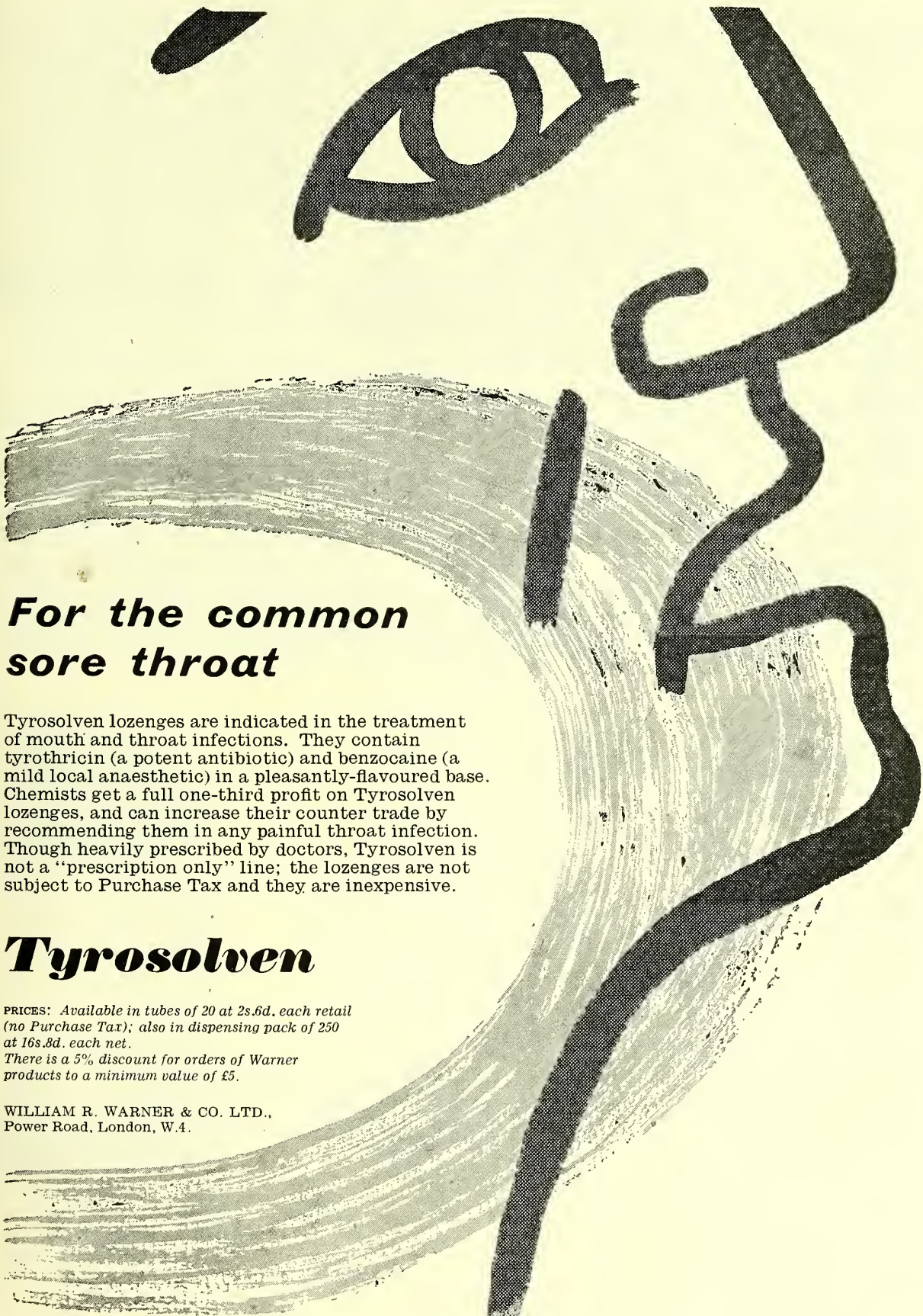
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CARNEGIES OF WELWYN LTD

Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'

Telephone: WELWYN GARDEN 5001

(6 lines)



For the common sore throat

Tyrosolven lozenges are indicated in the treatment of mouth and throat infections. They contain tyrothricin (a potent antibiotic) and benzocaine (a mild local anaesthetic) in a pleasantly-flavoured base. Chemists get a full one-third profit on Tyrosolven lozenges, and can increase their counter trade by recommending them in any painful throat infection. Though heavily prescribed by doctors, Tyrosolven is not a "prescription only" line; the lozenges are not subject to Purchase Tax and they are inexpensive.

Tyrosolven

PRICES: Available in tubes of 20 at 2s.6d. each retail (no Purchase Tax); also in dispensing pack of 250 at 16s.8d. each net.

There is a 5% discount for orders of Warner products to a minimum value of £5.

WILLIAM R. WARNER & CO. LTD.,
Power Road, London, W.4.

Every day—
more chemists are dispensing



**COX
TABLETS**

ARTHUR H. COX & CO. LTD.
 Manufacturing Chemists since 1839
BRIGHTON, 7, SUSSEX



A new treatment for threadworm infestation

'Entacyl' (piperazine adipate tablets) is a particularly effective oxyuricide with the following advantages—Rapid action—Pleasant taste—No nausea or other side effects even in young children—Complete eradication without an enema.

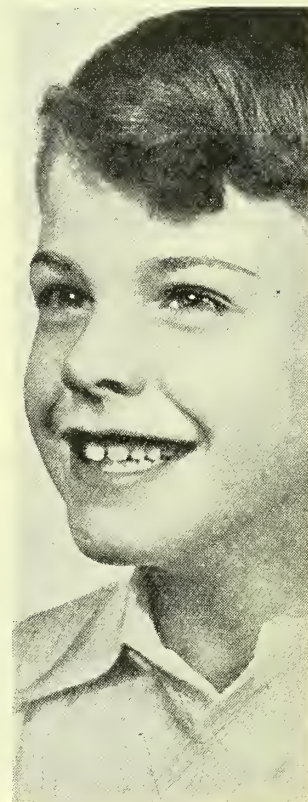
'ENTACYL' TRADE MARK

(Brit. Pat. Appn. No. 29123/53)

Tablets each containing 300 mg. of piperazine adipate.

PRICES	TRADE	RETAIL
Bottles of 25 tablets	3/-	5/3
Bottles of 100 tablets	10/-	17/6
Bottles of 500 tablets	42/-	73/6

Retail prices include Purchase Tax



NATIONAL ADVERTISING PROMOTES

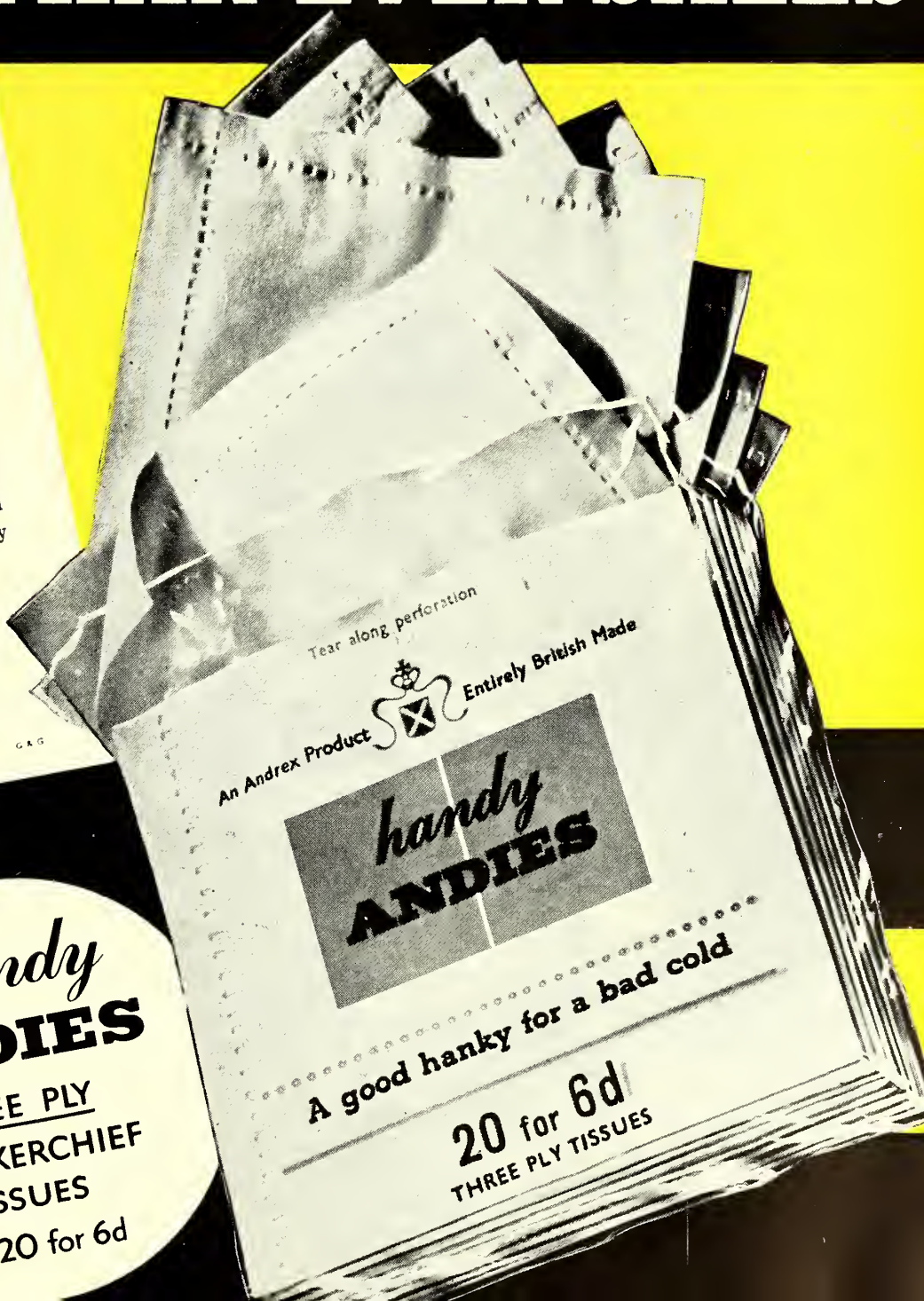
BIGGER THAN EVER SALES

HARD SELLING advertising in top circulation journals appears now for Handy-Andies. These wet-strong, hem stitched' hankies with three thicknesses of super soft tissue are fast becoming a national favourite.

JUST LOOK AT THIS PROFIT MARGIN

Another best seller and another best-ever profit margin from St. Andrew Mills Ltd.
Retail 6d. a packet. Trade 4/- a dozen.
Order now through your usual wholesaler—really attractive display outers are supplied for easy dispensing. Showcards also available.

An Andrex Product
ENTIRELY BRITISH MADE AT
ST. ANDREW MILLS LTD., LONDON, E.17



handy
ANDIES
THREE PLY
HANDKERCHIEF
TISSUES
20 for 6d

StaffordAllenS

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TRAGACANTH • KARAYA
ACACIA

As leading millers of Natural Gums, we carry a wide range of the different grades used by the Pharmaceutical and Allied Industries. These gums are rigidly tested and controlled for mucilage uniformity, fineness, colour, ash etc., etc.

Continuity of quality is assured.

ORDER FROM

STAFFORD ALLEN & SONS LTD., WHARF ROAD, LONDON, N.1

Telephone : CLErkenwell 1000



TAS/AL.459

PRICE REDUCTION

'Penidural'

Trade Mark

DBED Dipenicillin G

ORAL SUSPENSION

Wyeth are glad to announce a reduction in the cost price to chemists of 'Penidural' Oral Suspension. This has resulted from improved yields and manufacturing methods.

As from January 11th, 1954, the new cost price to chemists will be 15/- per 60 c.c. as compared with the old price of 18/9d.

Please note that the contents of each bottle are now 60 c.c. instead of 2 fluid ounces.

Claims for rebate on stock held at closing time 9th January, 1954, should quote batch numbers and must reach us by January 16th, 1954.



*John Wyeth & Brother Limited,
Clifton House, Euston Road, London, N.W.1.*

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THEOPHYLLINE ALKALOID CRYSTALS B.P.

THEOPHYLLINE ALKALOID

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*Quality Drugs
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★ *Soft as a Cloud*

★ *Delicate as Down*

2" FLAT COMPACT SIZE

3" HANDBAG SIZE

5" BATH SIZE

FINISHED IN PASTEL SHADES

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SURREY

Telephone: CAMBERLEY 979

BISMUTH SUBGALLATE

applied externally in cases of

DERMATITIS
ECZEMA WOUNDS
BURNS

ensures

Protection from trauma

Prevention of infection

Rapid healing

Recent investigations have shown conclusively that in the treatment of chronic eczema and dermatitis Bismuth subgallate has succeeded where other remedies have failed.

Full data and free samples from
Bismuth Research Department

MINING & CHEMICAL PRODUCTS LTD.

BISMUTH RESEARCH DEPT.

86 STRAND, LONDON, W.C.2

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DRUGS

SUNDRIES

Manufacturing Chemists

**PILLS · TABLETS
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BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)**



NADROL

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Antiseptic

A  Product which has been approved by the  Standards Committee.

- ★ PLEASANT ODOUR
- ★ PLEASURES THE CUSTOMER
- ★ SHOWS EXTRA PROFIT
- ★ SUITS YOU

ORDER now through your usual wholesaler

RETAIL	TRADE
4 oz. — 1/5d (incl. P.T.)	10/- per doz. (plus P.T. 2/6)
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Packed in outers of 1 doz.

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Something they can trust

The public likes something reliable, something with dependable high quality. A faithful following is the public's response to trustworthy products that give real satisfaction.

Such is the popularity of

CUTICURA SOAP CUTICURA OINTMENT CUTICURA TALCUM POWDER CUTICURA SHAVING STICK

There is a growing circle of discriminating people who appreciate high quality and insist on these soothing, protective, fragrant, mildly medicated Preparations, for care of the skin. Just display one each of these eye-catching firm family favourites in your attractive window, and make sure this steady all-the-year-round business comes your way.

CUTICURA SOAPS, OINTMENTS AND SHAVING STICKS HAVE ALWAYS CONTAINED **CHLOROPHYLL**

325

Lusty's

For Prompt Delivery

MEDICATED CONFECTIONERY

Linseed, Liquorice and Chloro. Lozenges.
Balm of Gilead Pastilles.
Skeltons Herbal Cough Lozenges. (2 oz. cartons.)
Potters Winter Cherry Pastilles. (2 oz. tins.)

HERBALENE · GARLIC PERLES & TABLETS
SEAWEED PREPARATIONS · PURE YEAST TABLETS
CHARCOAL TABLETS · RASPBERRY LEAF TABLETS
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SLIPPERY ELM SOAP

MEDICINAL HERBS IN 5d. PACKETS
HERBAL SMOKING MIXTURES (In bulk & packed)
NATURAL HERB TABLETS · CULINARY HERBS

Pills and Tablets supplied to
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TRADE TERMS ON REQUEST

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ILON Products now available...

ILON ABSCESS SALVE has been found an infallible remedy for the treatment and elimination of Boils, Carbuncles and Abscesses. Rapid and painless in its action—four applications being normally sufficient.

'ILODERM'—manufactured by the same Company is excellent in the treatment of Burns, Dermatitis and most other Skin Ailments.

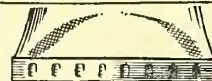
● There is no penicillin or other Antibiotic in any of the ILODerm products.



ILODERM

TUBE WITH ABOUT 30 GRAMMES

Concessionaire: T. V. DUNCAN, ESQ.,
181 BLAIRBETH ROAD, BURNSIDE,
LANARKSHIRE, SCOTLAND
ILON CHEMISCHE INDUSTRIE,
FREIBURG, GERMANY



Book your BENGER'S FOOD DISPLAY BONUS

—offer closes 27th February, 1954

- Supplement your profits.
- Link up with National Press Campaign.
- Take advantage of Benger's first bonus offer since 1950.
- Stimulate your sales and build goodwill.

Choice of 3 bonus parcels for 14 days' display

	PARCELS	BONUS PRICE	BONUS
A	1 doz. No. 0 (2/9) ½ doz. No. 1 (4/9)	£2 . 6 . 9	5%
B	2 doz. No. 0 (2/9) 1 doz. No. 1 (4/9)	£4 . 11 . 0	7½%
C	3 doz. No. 0 (2/9) 2 doz. No. 1 (4/9)	£7 . 13 . 0	10%

Doctors are recommending Benger's Food for:—

- Invalid and convalescent diet.
- The failing digestion of later life.
- Infant feeding problems.

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Attractive new show material as illustrated will be sent to you for your 14-day display. Alternatively we will DRESS YOUR WINDOW if you prefer.



● If you have not yet ordered your BONUS PARCEL NAME YOUR WHOLESALER AND WRITE NOW TO:—

BENGER'S LIMITED · HOLMES CHAPEL · CHESHIRE



ATTENTION ALL PHARMACISTS

P.A.T.A.

BENGUE'S BALSAM

Rapid relief from the pains of

**RHEUMATISM, SCIATICA, NEURALGIA
MUSCULAR FATIGUE AND STRAIN**

★

Steady Mail, Press and Personal Propaganda is maintained amongst members of the Medical Profession.

STOCK NOW TO ENSURE MEETING THE DEMAND THE SEASON WILL BRING

PRICE TO YOU

½ oz. tube 15/9 doz. plus 3/10½ P.T.

1 oz. tube 26/2 doz. plus 6/5 P.T.

1 lb. Dispensing Pack 28/- each net.

RETAILING AT

½ oz. tube 2/1 per tube

1 oz. tube 3/6 per tube

SEDALBY BAILLY

**SEDATIVE AND
ANTISPASMODIC TABLETS**

(Sch. IV)

**For Treatment of
Neuropathic, Cardiac and
Gastro-Intestinal Disorders**

Postal and personal propaganda to the medical profession is maintained on behalf of this product

PACKINGS, TUBE OF 30 TABLETS
DISPENSING PACK: 250 TABLETS

BAILLY LIMITED, LONDON

BENGUE & CO., LTD.

Manufacturing Chemists, MOUNT PLEASANT, ALPERTON, WEMBLEY, MIDDLESEX

EPHAZONE TABLETS

**Rational, symptomatic treatment in
ASTHMA & BRONCHITIS**

Each tablet contains Ephedrine, the important anti-spasmodic for bronchial spasm, Theobromine, for its relaxing effect on the bronchial muscle and for stimulation of the coronary circulation, Phenazone, for its soothing effect on the higher centres, and Calcium gluconate, a readily absorbable calcium salt, for diminishing capillary permeability and checking the secretion of mucus.

These active ingredients with complementary effects in bronchial asthma are presented in the following proportions in the 'EPHAZONE' Tablet:

Ephedrine hydrochloride	- - -	¼ grain
Theobromine	- - -	½ grain
Phenazone	- - -	1 grain
Calcium gluconate	- -	¼ grain

This preparation is sanctioned for prescription under N.H.S

EPHAZONE LTD. 59 Brook St., London, W.1. Tel: Mayfair 5496

A REALLY CONVENIENT PACK 1/6

PER SCREW LID TIN

**NO MORE PRISING OFF LIDS
WITH A THREEPENNY BIT OR
FINGER NAILS!**



Jelly Hand Cleansers are rapidly coming into regular use—sell the best and most attractively packed of all

EVERYONE NEEDS SWARFEGA

The finest jelly hand cleanser on the market

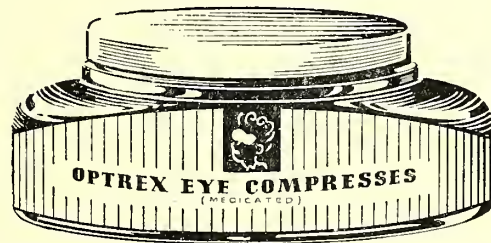
ORDER NOW and be sure to ask for the **NEW PACK**

Enquiries through usual trade channels or direct to—

DEB CHEMICAL PROPRIETARIES LTD.
SPENCER ROAD, BELPER, DERBYS. Tel.: 278

Optrex

Eye Compresses



back again in full supply

OPTREX EYE COMPRESSES, packed in attractive jars of six, are again available in the original, thick, super-absorbent, pre-war quality.

This improvement in quality has necessitated a small price increase, but in spite of this they are even better value than ever. Prices are now as follows :

TRADE PER DOZ.	P.T. PER DOZ.	RETAIL INC. P.T.
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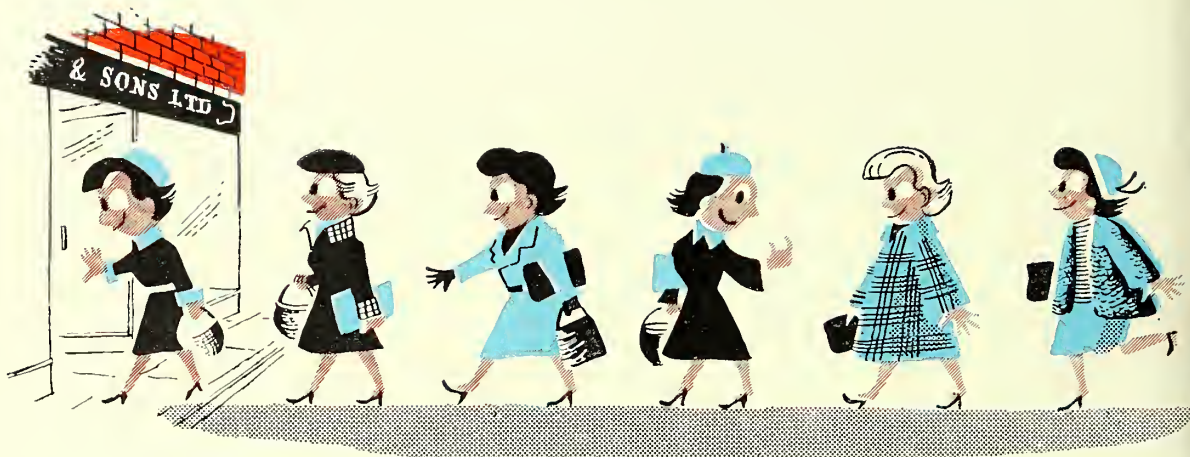
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This year Cooper's Household Aerosol — containing "Pybuthrin", the super-efficient, non-poisonous flykiller—will be available in THREE sizes. In addition to the 6-oz. and 12-oz. containers retailing at 7/6 and 12/6, a new,

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In addition to the above offer, a SPECIAL 5% BONUS DISCOUNT will be allowed on all orders, value £5 or over, for Cooper's Household Flyspray placed not later than April 30th. Sprayers, Cooper's Moth Spray, Moth Powder and Household Insecticides *can be included* to make the total order up to £5. 10-oz. tin 2/9. 20-oz. tin 4/9. Sprayers 5/6.





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To give the greatest possible freedom of choice in the composition of a bonus parcel, a simple points system will be applied to standard Trade Cases as follows:—

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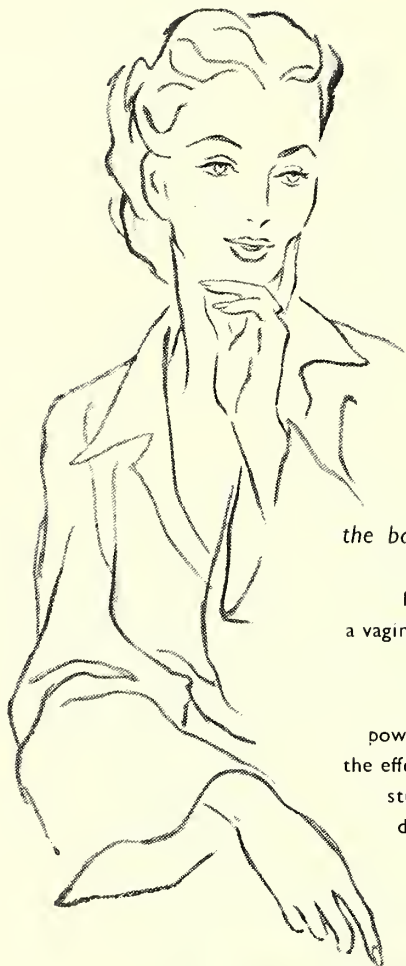
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 Orders for the 4-oz. and 6-oz. sizes can only be accepted in multiples of 1 dozen units.
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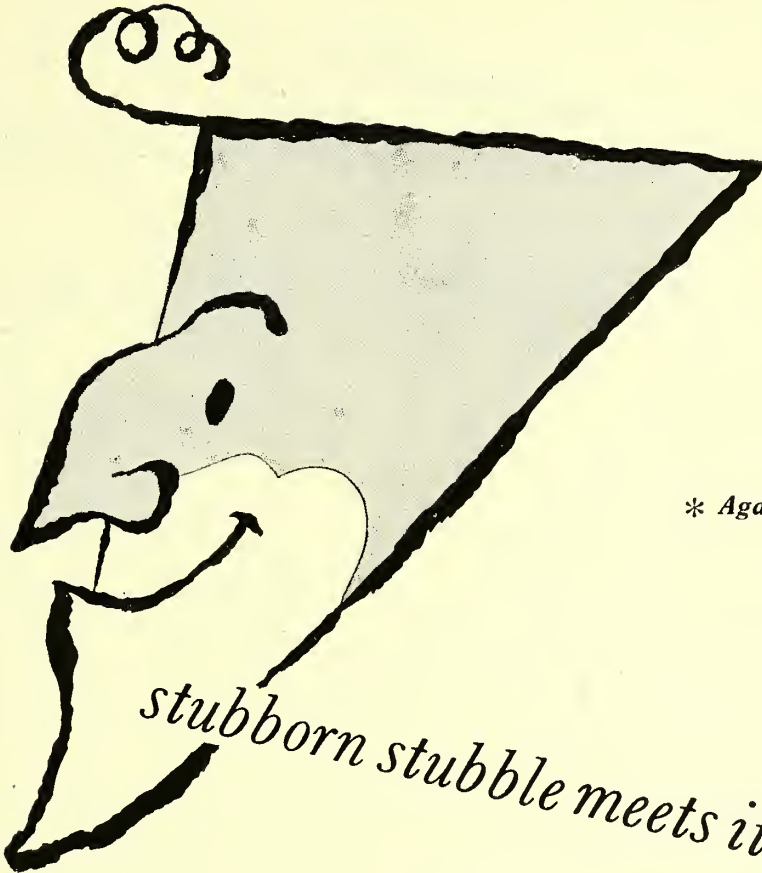
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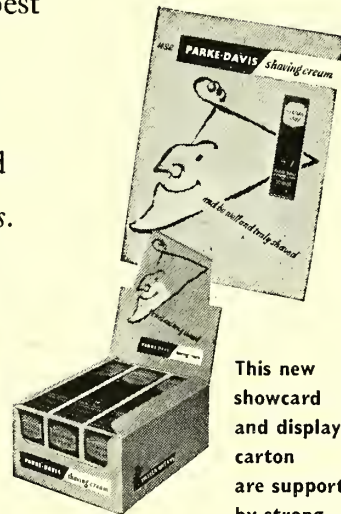
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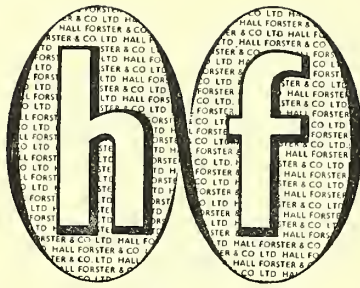
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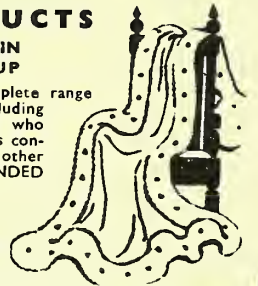
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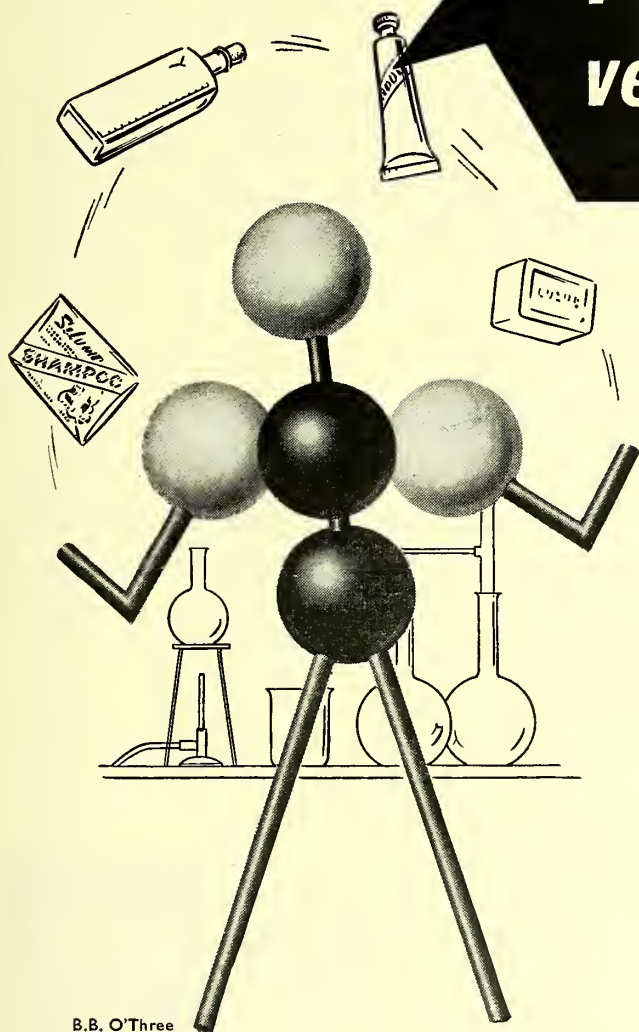
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Insulin Zinc Suspension (Amorphous)—Semilente
with an action of 12 to 18 hours

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with a duration of activity of about 24 hours

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These new insulins, which are entirely of British manufacture, consist of Insulin with zinc suspended in a special buffer ; no added protein is present. They may be mixed with each other to give intermediate duration of action, but they should not be mixed with other types of insulin.

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**14 to the doz-
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This container

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1 doz. 10/- per doz. plus P.T.
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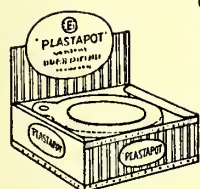
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 161 January 9, 1954 No. 3855

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The CHEMIST AND DRUGGIST

Volume 161

JANUARY 9, 1954

No. 3855

New Standard for "Clinicals"

TIME INDICATIONS ABOLISHED

A RECENTLY published revised British Standard for clinical maximum thermometers (B.S. 691, 1953) prohibits the use of the time indications such as " $\frac{1}{2}$ min." or "1 min." on British Standard thermometers.

The new standard specifies three main types of thermometer, which will be marked "quick," "medium," or "stubby" and an explanatory slip with wording laid down in the standard will be packed with each thermometer at the time of sale. The wording will be:—

Time taken to register the correct temperature. Experiments have shown that there are considerable variations in the rate at which the temperature is indicated by a clinical thermometer for different individuals and under different conditions. The thermometer must always be left in position for a sufficient time to ensure that the maximum possible indication is reached. To avoid the danger of misleading the user, no period of time is marked on British Standard clinical thermometers. The inscriptions "quick," "medium" or "stubby" are sanctioned by British Standard 691 merely to distinguish between three classes of clinical thermometer. It is emphasized that only actual trial will show how long it is necessary to leave the thermometer in position in order to register the correct temperature.

The British Standards Institution claims that the above slip is an attempt at education that has the backing of the manufacturers and the medical profession, but admits that the success of the standard will depend largely upon the extent to which the public can be persuaded not to insist upon thermometers being marked with a time indication.

In an explanatory statement the Institution contends that time indications on clinical thermometers are misleading and may be dangerous if they are adhered to strictly by the user because a " $\frac{1}{2}$ -min." thermometer is most unlikely to register the true temperature at the end of thirty seconds and that the precise time a particular thermometer will take to register the correct temperature depends upon a number of factors including the condition of the patient, the initial temperature of the thermometer and the skill of the user.

PURCHASE TAX

Pharmacists' stocks unaffected

THE Treasury has made three Orders effecting changes in the rates of purchase tax for a variety of goods, but medicines, toilet and photographic preparations are not affected. The Orders are published as S.I., 1954, Nos. 1, 2 and 3.

NEW ROYAL CHARTER By-laws made and approved

AT a special meeting of the Council of the Pharmaceutical Society in London on January 1, the president (Mr. T. Heseltine) in the chair, a letter from the Home Office conveying the Supplemental Charter granted to the Society on December 31, 1953, was read. In reply the Council asked the Home Secretary to convey the Society's deep appreciation to the Queen.

The Council proceeded to make new by-laws (see *C. & D.*, 1953, II, 337 and 529) in accordance with Article 19 of the Supplemental Charter and instructed that those be submitted to the Privy Council for confirmation and approval. The confirmation and approval of the Privy Council were given the same day. The new by-laws are in force.

N.H.S. ELECTIONS

Compilation of electoral registers

THE triennial elections of Pharmaceutical Committees in England and Wales are being held in each committee area in February and for that purpose the returning officer is compiling a register of electors.

Two registers are necessary, one of chemist contractors and one of pharmacist employees in retail practice or in hospital pharmacy. Compilation of the former registers presents no difficulty as the pharmaceutical lists for each Executive Council area provide the necessary information. Concerning the employees' registers eligible persons are asked to seek inclusion by application to the returning officer (for most areas, Mr. H. Noble, 4 Queen Square, London, W.C.1). The Pharmaceutical Committee area within which the pharmacist is employed and not that in which he lives determines the electoral area in which he is eligible to vote. Application is not necessary where the pharmacist is employed in the area of one of the following Pharmaceutical Committees: Blackburn, Carlisle, Carmarthenshire, Denbighshire, East Ham, Grimsby, Huddersfield, Isle of Ely, Montgomeryshire, Reading, Smethwick, Walsall, West Bromwich and Wiltshire. In those areas steps are being taken

locally to compile the appropriate register and a local returning officer has been appointed.

Applications should be made by post-card giving: 1, Name, in full (block letters); 2, Pharmaceutical Committee area in which employed; 3, name and address of contractor (or of hospital) at which employed; and 4, private address and Pharmaceutical Society's registration number. Pharmacist employees are urged to make the necessary application forthwith, so that they can be supplied with full particulars of the election, the appropriate nomination forms, and, in due course, with voting papers. The new committees take office on April 1.

NATIONAL INSURANCE

Unemployment benefit proposals

THE National Insurance Advisory Committee is considering draft regulations (The National Insurance (Unemployment and Sickness Benefit) Amendment Regulations, 1953, H.M. Stationery Office, price twopence) to amend the existing rule that a man, following the termination of his employment, can receive unemployment benefit if his compensation for loss of salary or wages during the first thirteen weeks does not exceed two-thirds of his previous wages less two-thirds of his unemployment benefit including any allowances. Under the new rule allowances for his wife and children or other dependants are disregarded in the calculation. The Committee will consider written representations on the draft regulations sent before January 15 to its Secretary, 10 John Adam Street, London, W.C.2.

HOSPITAL PHARMACY

Special allowances

AN agreement reached by Committee C of the Pharmaceutical Whitley Council (operative from December 31, 1953) recognises that the "normal pharmaceutical qualification" in hospital pharmacy is to be that of Pharmaceutical Chemist and provides for



SALES CONFERENCE: Some of the representatives of Brand & Co., Ltd., in London for their annual conference recently.

a special allowance of £25 per annum for pharmacists holding a higher qualification (university degree in pharmacy or in a relevant field of science, associateship of the Royal Institute of Chemistry or Fellowship of the Pharmaceutical Society). Those receiving an allowance at December 30, 1953, continue to be entitled to it.

Another agreement, effective from the same date, deals with hospital assistants in dispensing. When one such is responsible for dispensary supplies and is not supervised by a pharmacist he receives an allowance of £10 per annum (£20 if he supervises other assistants) and if he performs those duties in the temporary absence of a pharmacist (for not less than one month) he receives an allowance for the total acting period at the appropriate rate. If an assistant in dispensing attends evening clinics and that involves work in addition to a normal 39-hour week he is entitled to an extra payment of 4s. 6d. per hour for the extra work.

VIOMYCIN SULPHATE

Distribution commenced

IN a circular letter to senior administrative medical officers and chairmen of medical committees of teaching hospitals the Ministry of Health states that a limited quantity of viomycin sulphate in rubber-capped vials each containing 1 gm. is being made available shortly at antibiotic distribution centres for use against tuberculosis in National Health Centre hospitals. With each consignment distributed is being issued a note, prepared by the Medical Research Council, giving the indications for use, method of administration, precautions, etc.

VITAL STATISTICS

Figures for 1952

ACCORDING to the Registrar-General's statistical review of England and Wales in 1952 published recently (H.M. Stationery Office, price 10s.) the Greater London area had the lowest death rate (10 per 1,000 of population) of any region. The highest figure was that for West Yorkshire (13.1). That for England and Wales was 11.3. For infant mortality Greater London also had the lowest figure (22) while Merseyside had the highest (35). The figure for England and Wales was 28.

MANAGEMENT TRAINING

A new F.B.I. handbook

A RECENTLY published booklet, "Education and Training for Management" (the first of a series on industrial educational problems) prepared by the education committee of the Federation of British Industries deals with its subject from the points of view of the requirements and attitude of the industry, existing provisions, and future development.

INJURIES INSURANCE

Reciprocity with Denmark

AN agreement providing for benefits awarded under the industrial injuries insurance schemes in Britain and Denmark to be paid in either country and to determine which scheme is to apply

when a national of one country is employed in the other was signed in London on December 15, 1953. The agreement comes into force after it has been ratified by both countries.

IRISH NEWS

Benevolent Fund Committee

AT a meeting of the Northern Ireland Chemists' Benevolent Fund Committee recently, grants amounting to £133 were made to five applicants. The chairman (Mr. W. H. Boyd, president of the Pharmaceutical Society of Northern Ireland) said that in response to the appeal made to members and associates of the Society, the sum of £285 had been subscribed. While that amount was encouraging the number contributing was disappointing and he felt sure that many were unaware of the need for the existence of the Fund, and for giving it support.

Clonmel Pharmacists' Association

THE Clonmel Pharmacists' Association at a meeting held in Clonmel, recently, discussed, amongst other matters: Competition from grocers and other non-pharmaceutical traders, the Poisons and Pharmacy Acts with particular reference to sales of barbiturates and the restrictions on Veterinary Drugs, the sales of agricultural and horticultural preparations direct to farmers by non-chemists and chemists, the Restrictive Trade Practices Act, and the Health Act. The meeting also considered the question of holding a social function during 1954.

Industrial Alcohol

FOUR factories producing industrial alcohol in Donegal, Mayo and Monaghan are to cease production when their stocks of raw material are exhausted owing to the export market to Great Britain having collapsed. Another plant at Cooley, co. Louth, will continue production and will be the only producer in Eire. It is expected that another industry will be established at the four factories—possibly the manufacture of starch and glucose from potatoes.

Levy Repayment Costs

THE Northern Ireland comptroller and auditor-general in a report on Health Service expenditure in 1952-53, states that £24,826 was paid on 199,439 claims to the National Assistance Board for the recoupment of charges borne by necessitous individuals for doctors' prescriptions and other equipment and appliances. The number of claims for doctors' prescriptions was 191,026, costing £9,551.

Burglary and Raid

THE pharmacy of Mr. David Woulfe, M.P.S.I., Grafton Street, Dublin, was broken into recently and a quantity of goods, including cameras, electric razors and powder compacts were stolen. In the early hours of December 12, 1953, the plate-glass window of the pharmacy of Mr. J. A. Hurson, M.P.S.I., 84 Talbot Street, Dublin, was smashed and thieves made away with cameras and the value of £200.

SCOTTISH NEWS

Library's Aid to Research

IN their recently issued first annual report the executive committee of the Scottish Central Library indicate the valuable assistance that the library is giving to a wide range of scientific, technical and industrial research in Scotland. The report states that once its functions are more widely understood the central library will have an even more important rôle to play in the field of research. So that every Scottish library may bear its share in the cost of the library, the committee emphasise the necessity of the abolition by amending legislation of the 3d. library rate limit for Scottish burgh libraries.

Illegible Prescriptions

IT was reported at a meeting of the Edinburgh Executive Council recently that a doctor "was persistently issuing forms in handwriting which was undecipherable to chemists," a practice that, the Council decided, might have serious consequences to the patients concerned. They agreed to recommend that a letter in the strongest terms should be sent to the doctor, requiring him to write out the prescriptions in a more careful manner.

No Half-day Opening

IT was reported at a meeting of Perth Executive Council recently that pharmacies will not open on the Wednesday half-holiday (see *C. & D.*, 1953, II, 156). It was stated that chemists would indicate at their premises where they could be contacted if required in an emergency.

LOCAL NEWS

Silver Jubilee Celebrations

TO mark the occasion of their silver Jubilee (1928-53) the directors of Sharp & Dohme, Ltd., Hoddesdon, entertained all members of the company and their guests in London on December 19, 1953. The occasion had been timed to coincide with the annual conference of representatives, so that all outside personnel and their ladies could also be present. After the loyal toast had been proposed by Mr. T. W. Rayner (managing director), "The President of the United States of America" was pledged in honour of two distinguished American visitors: Messrs. J. H. Sharp (president) and J. J. Kane (director of sales), both of the Merck-Sharp-&Dohme international division, who had come specially from Philadelphia. Dr. E. W. Tapley proposed "The Company," coupled with the name of Mr. T. W. Rayner (its founder), and Mr. Rayner responded. "The Guests" was proposed by Mr. J. H. Fingerhut, Mr. J. H. Sharp responding. Mr. Rayner then presented to Mr. Michael T. Finigan a 25-years' service badge—an award Mr. Rayner had himself previously received at a private ceremony at Hoddesdon. An inscribed cigarette casket was handed to Mr. Rayner by Mr. J. H. Fingerhut on behalf of all employees of the company.

10th Anniversary Celebrations

MEMBERS of the staff of D. Trapow & Co., Ltd. (manufacturers of Newman labelling machines), together with their wives and friends celebrated the tenth anniversary of the foundation of the company in London on December 14, 1953. At a party at the works, Mr. D. S. Friend (a director) gave an address in which he traced the company's growth from humble beginnings to its present prosperity. The celebrations ended with a visit to an ice pantomime.

Censure for EC10 Alteration

IT was reported at a meeting of West Bromwich Executive Council on December 11, 1953, that a woman patient, who admitted having altered a doctor's prescription for lint and cotton wool before handing it to a chemist, had been brought before the general services administrative committee and severely censured. That course was adopted because of the age of the patient, but the committee would not be inclined to such leniency in future cases, it was stated.

Representatives Under Training

A TWO-WEEK training course for their representatives was conducted at Ware, Herts, recently, by Smith & Nephew, Ltd. (the new marketing company for the products of T. J. Smith & Nephew, Ltd., and Herts Pharmaceuticals, Ltd.). The course, whose main purpose was to acquaint representatives with the products manufactured by both companies, included lectures, films and demonstrations.

NEWS IN BRIEF**Tobacco Industry's Cancer Research.**

—A committee of scientists has been appointed by United States cigarette makers to investigate the theory that cancer of the lung may have some connection with smoking.

Theft from Pharmacy. — The pharmacy of Peterborough and District Co-operative Society, Ltd., London Road, Peterborough, was broken into on December 8, 1953, and about £3 in cash and some goods were stolen.

Long Service. — Five men and six women employees of W. B. Cartwright, Ltd., Rawdon, Leeds, received long-service awards on December 30, 1953. Men with over forty years' service received £100 each, and women with over twenty-five years' service £50 each.

Sulphur in Nature.—The University of London has arranged three lectures on "The Metabolism of Sulphur Amino Acids and the Cycle of Sulphur in Nature" to be given by Professor C. Fromageot (University of Paris) at University College, Gower Street, London, W.C.1, on February 8, 11 and 15 at 5.30 p.m.

Southern Regional Conference.—The remarks attributed to Mr. C. H. Parr in the report of the Mid-Southern Region Conference (*C. & D.*, January 2, p. 23) were made by Mr. P. J. Parr, Bournemouth.

TOPICAL REFLECTIONS

By Xrayser

A Danish Forecast

This year has started well with your abstract (pp. 16-18) of an address given at last year's International Pharmaceutical Congress by Mr. Schou of Copenhagen. In Scandinavian pharmacies the average type of business is, as he remarks, more professional than in those of North America, its antithesis. So much is this the case that "small-scale pharmacies have been able to keep pace with industry in a purely galenical sphere." That result is "due to the good condition of the pharmacy's equipment, its organisation, the authorities' control, and the pharmacist's education." What of the future? Mr. Schou takes a broad view. He believes that pharmacy "always has been and always will be" a blend of science, craft, trade, and profession. In a quotation from Remington's "Practice of Pharmacy" (1951), he emphasises that college students of pharmacy must be taught "the principles and manipulative techniques which must be mastered by the competent dispenser," and must be acquainted with small-scale manufacturing and with methods of laboratory research. The author's forecast is resolute. He writes: "Pharmacists have stamped pharmacy in the past, stamp it today and will stamp pharmacy of tomorrow."

Weakness in N.H.S. Categories

"N.H.S. at the Cross Roads" (pp. 18-19) is a searching examination by Mr. F. F. Marchbank of Government policy in classifying preparations for dispensing National Health Service prescriptions. If patients, their prescribers and their dispensers are to be restricted, not by consent but by decree, in choice of medicines, the future of the service will not be happy. Mr. Marchbank holds that in that case "the Health Service will come to be regarded as a utility service giving only the cheaper grades of treatment." Can this be seriously doubted? Your contributor instances the first appearance of a soluble aspirin tablet. The Ministry of Health seemed to regard it as quite unnecessary, but eventually changed its attitude after other tablets of similar type had come on the market. Rising costs are evidently connected with the fact that doctors "now write about six prescriptions per patient per annum against about four under N.H.I.," order needlessly large quantities of medicaments, and prescribe expensive drugs for conditions where their use is not indicated. If that leakage could be stopped, more "speed and enterprise in the recognition of new therapeutic advances" could be substituted for the present unfriendly attitude that is adopted toward pharmacological research.

Scientists in Government Employ

In the book by Sir John Craig referred to in these Reflections last week will be found an account of the services of William Thomas Brande and Thomas Graham at the Mint in the nineteenth century. Brande was given, in 1823, the task of investigating steels for use in making dies; two years later he was appointed the Mint superintendent of machinery. His position as Professor of Chemistry at the Royal Institution he retained till 1852, when the Government increased his salary. He died in 1866. In 1856 Thomas Graham, then a consultant assayer to the Mint, became master. His law of the diffusion of gases has a tangible record in the form of a palladium "coin" (still kept, I presume, on the premises): this relic occluded 600 times its volume of hydrogen. During Graham's tenure of office the change from copper to bronze for copper coinage was made; and in 1869, the year of his death, cupro-nickel coins were minted for Jamaica. Soon afterwards, the Treasury issued the comment that great scientific attainments were not essential to the successful administration of his department. (A short biography of Graham appeared in *THE CHEMIST AND DRUGGIST*, 1925. II. 102). We may infer that the Treasury regarded Newton and Graham (though not Brande) as expensive luxuries.

LEGAL REPORTS

Christmas Eve Escapade.—At Chesterfield borough magistrates' court, on December 31, 1953, Frederick Spencer, a retired railwayman, 130 Derby Road, Chesterfield, was granted an absolute discharge after he had been found guilty of stealing a number of articles from Boots, Ltd., Market Place, Chesterfield, on Christmas Eve. Spencer pleaded not guilty to the charge, saying he had been drinking and did not know what he was doing.

Fine for Resisting Inspection.—In the first case of its kind to be brought before Blackburn magistrates, a pharmacist (Mr. Richard Thompson, M.P.S., 1 New Wellington Street, Blackburn), was on December 21 fined £2 for refusing to permit a weights-and-measures inspector to examine scales and weighing machines in his shop. Mr. Thompson pleaded guilty to the summons, which was brought under a 46-year-old weights-and-measures regulation. Prosecuting solicitor said that the inspector, accompanied by a colleague, went to Mr. Thompson's shop on November 19 to make a routine inspection. There were no customers in the shop. The inspection would normally have taken from five to ten minutes. When told by the inspector that he wished to examine his weighing machines, Mr. Thompson said: "You have been here once this year." That, said the solicitor, was quite true.

Mr. Thompson then told the inspector that he could not make the examination as it was nearly 10 a.m. and the National Health prescriptions would be coming in. Thompson then added that weights-and-measures inspectors were coming too often and advised them to "come again next year." When the inspector, accompanied by another inspector, called again at the shop at noon that day and told Mr. Thompson he would be reported, defendant said he had no comment to make. Later, Mr. Thompson wrote a letter to the chief inspector of weights and measures saying that "owing to pressure of work he had gone against his better judgment in not giving free entry." He apologized and said the scales would be available for inspection.

For Mr. Thompson, who did not appear, it was stated that he had at first formed the impression that he was being inspected too often. After he had had time to think about the matter and take advice, he realised that the weights-and-measures inspector had a perfect right to go to the premises as often as he was sent there. There was no question of anything being wrong with the three weighing machines kept by Mr. Thompson. A departmental official told the Bench that regulations provided for inspection at least once a year.

Food Regulations Contravened.—Goods sold in a Kettering shop and advertisements in a woman's magazine led to the London company of Benefax, Ltd., being fined at Kettering recently, after being accused of contravening the food regulations. The company was fined a total of £60, with £13 17s. costs. It was alleged to have advertised on two occasions that Bene-

fax was a pure concentrate of liver (only approximately 40 per cent. being concentrate) and that a general claim had been made saying that vitamins were present, without specifying the minimum quantity of vitamin contained in each ounce. The company was also accused of selling Benefax with a label describing the food as pure concentrate of liver and with selling the product without giving a true statement of the appropriate designation of each ingredient. For the Weights and Measures Department, which prosecuted, it was stated that the product was dried liver and sugar in the proportion of liver 40 per cent. and sugar 60 per cent. For the defence a plea of not guilty was put in. Mr. R. H. Kemp (secretary of the Chemists Federation) said that the product had been submitted to the Federation, which had classed Benefax as a medicine. He would grade it as a medicinal product for administration to children, to be taken under the guidance of a doctor or pharmacist. Cross-examined, he said that it would be taken for under-nutrition and under-growth. Asked if he was suggesting that the healthy boys and girls, mentioned in the advertisement, on whom tests had been made by the makers, were suffering from under-nutrition, he replied "No." Mr. O. N. T. Davenport (a director and the general manager of the company) said that he considered Benefax a pharmaceutical product which reached the public through chemists only. Before advertising commenced it had been classed as a proprietary medicine by the Newspaper Proprietors' Association Committee. A Harley Street doctor said that in his opinion the product was not a food. Mr. N. L. Allport, a consulting analyst and analyst to the Ministry of Health under the National Health Service, said that he would classify the product as pharmaceutical. "It's not a food," he said. "One of these tablets does not allay hunger as food should, but stimulates. They encourage one to enjoy meals."

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

H. & T. ROSS, LTD. (P.C.).—Capital £100. To carry on the business of chemists, druggists and librarians, etc. Directors: Harry Ross, Terry Ross and Betty S. Fellows. R.O.: 8 Heather Park Parade, Wembley, Middlesex.

J. WOLFF & CO. (LONDON), LTD. (P.C.).—Capital £600. To carry on the business of scientific instrument makers, etc. Directors: Joachim Wolff, Michael Cohen and Benjamin J. Vencar.

MAURICE CAGEN, LTD. (P.C.).—Capital £3,000. To carry on the business of chemists, druggists, etc. Subscribers: Maurice Cagen, M.P.S., and Mona Cagen. R.O.: 306 Kirkstall Road, Leeds, 4.

E. C. SLEEP (CHEMISTS), LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, druggists and librarians, etc. Directors: Ernest C. Sleep, M.P.S., and Jessie Sleep, The Cottage, 9 Idsworth Road, Cowplain, Portsmouth.

MELVILLE, DONALDSON & CO., LTD. (P.C.).—Registered in Edinburgh. Capital £100. To carry on the business of manufacturers of chemical goods, gases, drugs, etc. Directors: Lindsay R. D. Melville, Robert S. Strachan and James C. Donaldson. R.O.: 11 North Claremont Street, Glasgow, C.3.

RECKITT & COLMAN HOLDINGS, LTD. (P.C.).—To acquire not less than 90 per cent. of the issued share capitals of Reckitt & Sons, Ltd., and J. & J. Colman, Ltd. Power is taken to carry on business as chemists, druggists, drysalters, etc. Subscribers: K. E. Wright and R. A. Clarke. The first directors are not named. Solicitors: Slaughter & May, 18 Austin Friars, London, E.C.2.

Company News

CLAY & ABRAHAM, LTD.—The wholesale side of the business is being taken over on January 11 by a new company, Clay & Abraham (Manufacturing), Ltd., of which Mr. John Rae is managing director.

BUSINESS CHANGES

M. H. HEINEMANN, LTD., have removed to 41 Eastcheap, London, E.C.3 (telephone: Mincing Lane 8904).

SANDBROOK, METCALF & CO., LTD., have removed to 42 Horse Fair, Birmingham, 2 (telephone: Midland 1934).

The Reading laboratory of Thomas McLachlan and Partners has removed to Abbey Street, Reading (telephone: Reading 4501).

H. RUBECK, LTD., essential oil merchants, have removed their offices to Gwydir Chambers, 104 High Holborn, London, W.C.1 (telephone: Chancery 3494 and Holborn 6586).

JAMES YOUNG & SONS (SPRINGFIELD), LTD., Thornhouse Soapworks, Irvine, Ayr, have taken over the soap interests of Thomas Reid & Sons, Ltd., Scotland Street, Kinning Park, Glasgow, S.1.

MR. H. HORN BROOK, M.P.S., has acquired the business of M. B. Harrop, Ltd., 8 Balls Park Road, Birkenhead. Mr. Hornbrook's business at 31 Devonshire Road, Birkenhead, is closing down on January 10.

Appointments

MEGGESON & CO., LTD., Llewellyn Street, London, S.E.16, have appointed Mr. Maurice P. Stiles, M.P.S., their sales manager.

J. F. MACFARLAN & CO., LTD., 8 Elstree Way, Boreham Wood, Herts, have appointed Mr. G. W. Froom to succeed Mr. H. S. Fenner as their representative in the London area.

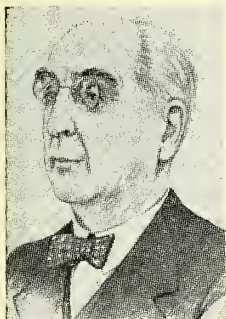
EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19, have appointed Mr. I. M. McLean general manager of Evans Medical Supplies (Northern), Ltd.

EUCRYL, LTD., 7 Oakley Road, Southampton, have appointed Mr. Percival King, M.P.S., M.S.M.A., their general manager. Mr. King was formerly sales and advertising manager of Meggeson & Co., Ltd., Llewellyn Street, London, S.E.16.

A CHAMPION OF THE RETAIL CHEMIST

Mr. G. A. Mallinson, O.B.E., dies at Eastbourne

MR. GEORGE ARTHUR MALLINSON, O.B.E., M.P.S., barrister-at-law, prime architect and first secretary of the National Pharmaceutical Union, died at Eastbourne on December 31, 1953, aged seventy-six.



Secretary of the Union from its formation under the title of the Retail Pharmacists' Union in 1921, Mr. Mallinson retired in February 1949.

Before giving up business to serve the interests of his fellow chemists he had had considerable success as a proprietor pharmacist. Pharmacy's welfare became the whole of his life. In 1921, at a dinner given in his honour in Manchester, Mr. Mallinson assured the assembled company that he would never forsake the calling. That vow he kept to the end. Only a few weeks before his death the *Recorder* published a long, diplomatic and persuasive letter from him defending chemists against charges that had been made against them in that newspaper.

After an apprenticeship at Heckmondwike, Yorks, and experience as assistant with the late Mr. Freshfield Reynolds, Ph.C., at Harrogate, he passed the Qualifying examination in 1899. Five years later (by which time he had qualified F.S.M.C.) he purchased a pharmacy in Withington, Manchester. It was while he was in Manchester that Mr. Mallinson entered public life. Following the introduction of the National Health Insurance Act (1911), he became secretary of the Manchester Pharmaceutical Association, and it fell to him in that capacity to prepare a claim for the Association against doctors. The N.H.I. Commission was much impressed by the way the case was argued; Manchester chemists were complimented on the way they had discharged their duties under the Act; and the claims were allowed. Mr. Mallinson had, in the process, acquired an intimate knowledge of N.H.I. matters, and in 1916 was appointed superintendent of the N.H.I. department of the Pharmaceutical Society, becoming assistant secretary of the Society in 1918. Three years later he took over the secretaryship of the newly formed Retail Pharmacists' Union. He was called to the Bar at the Inner Temple in 1922.

In negotiations with the Ministry of Health before the inception of the National Health Service, Mr. Mallinson was a member of the (later disbanded) Joint Committee on a National Pharmaceutical Service. The separation of prescribing from dispensing that took place under N.H.S. was the fulfilment of an ideal he had pursued since the fierce arguments that took place in 1911.

In 1948 Mr. Mallinson's services were publicly recognised by the award to him in the New Year Honours list of the O.B.E. In October 1949 the National Pharmaceutical Union gave a banquet to him at which all sections of pharmacy and the drug and allied trades, as well as Government departments, were represented. On that occasion Mr. J. Hearle (then chairman of the N.P.U.) said that the Union stood as a monument to Mr. Mallinson's enterprise and ability.

At a service at Downs Crematorium, Brighton, on January 4, members of the family present included his son (Dr. Frank Mallinson), sister and grandchildren. The National Pharmaceutical Union was represented by Mr. H. Holmes (chairman), Messrs. A. Aldington, H. B. Coulson, E. H. M. Graham, D. W. Hudson, H. Steinman and L. H. Teare (members of Executive), J. Wright (assistant secretary), F. W. Branch (former accountant), G. N. Lacey (solicitor), W. R. S. Clarke and the Misses A. Jay and K. Goldthorpe (present and former members of the staff). The Pharmaceutical Society was represented by its president (Mr. T. Heseltine) and secretaries (Sir Hugh N. Linstead and Mr. F. W. Adams). Messrs. S. M. Lennox (president), Norman Dewey (a past-president) and R. H. Kemp (secretary) represented the Chemists Federation. Mr. H. E. Chapman was there for the Proprietary Articles Trade Association and its president and the Fair Prices Defence Committee, while Mr. A. R. Cross (a member of the P.A.T.A. Council) attended on behalf of the Enfield Chemists' Association. The Association of British Pharmaceutical Industry was represented by its secretary (Mr. A. Duckworth), and the Proprietary Association of Great Britain by its vice-president (Mr. J. S. Walmsley) and secretary (Mr. W. G. Hollis). Many Eastbourne and Brighton pharmacists also attended. THE CHEMIST AND DRUGGIST was represented by its Editor (Mr. Owen H. Waller) and Publisher (Mr. A. Shepherd) and the *Pharmaceutical Journal* by Mr. T. B. Chadwick.

Tributes

Mr. Sidney J. Stearn (treasurer, National Pharmaceutical Union) writes: Some two years ago I stood for the first time watching the Victoria Falls. So grand was the sight and so great the emotions that stirred in me that I determined to put on to paper my experience and sensations as soon as I returned to my hotel. In the words of Robinson Crusoe—"I sat me down" to write. But alas I could find no words to meet the situation. So do I feel now as I attempt to write of my friend and your friend George Mallinson whose death we all mourn. Here indeed was a man, physically small in stature, but really great in the realm of the spirit; a true friend and kindly. He was never discouraged. He was far-seeing. Armed with an acute mind and unbounded energy he dedicated his life, his gifts,

his everything, to the cause so dear to his heart—the welfare of the retail pharmacist. We owe him so much, and shall never forget him. May we all be inspired by his courage, by his enthusiasm, by his dedicated life. "Well done, good and faithful servant."

Mr. H. Noble (secretary of the National Pharmaceutical Union) writes:—A first personal impression of "G.A.M." (as afterwards I was to know him) was gained in Newcastle-on-Tyne at a branch meeting he was addressing on pharmaceutical policy on the Pharmacy Bill, which eventually became the 1933 Act. I still remember vividly the impression then created on me by the clarity of his explanations, the cogency of his arguments and the sincerity of the convictions he expressed. Previously I had, of course, known Mallinson as a name; indeed, who in retail pharmacy had not?—even if, like me, their pharmaceutical connection at that time had passed little beyond the apprenticeship stage. It was not until 1936 that I joined his staff at the National Pharmaceutical Union and then had opportunities to appreciate more fully the qualities of the chief under whom I was to have the privilege of serving until his retirement in 1949. When I joined the Union the Chemists' Friends scheme, then in its early stages of development, was the latest expression of his fundamental belief that only by combining together could retail pharmacists promote and protect their special and mutual interests. In the development of the C.F. scheme I was to see displayed the qualities I had recognised years before and to realise that the N.P.U. and its already firmly established associates, the Chemists' Mutual Insurance and the Chemists' Sickness and Provident Societies owed their development, in large measure, to the sound business sense, balanced judgment and fearlessness of mind of their chief executive officer.

On more than one occasion I have known him say "You can't do a job like mine properly and make friends," and it is certain that, in pursuing what he believed to be the best interests of those he had undertaken to serve, he never allowed considerations of friendship to deter him from any action he considered to be right and proper. Nevertheless he did make friends—countless friends—in retail pharmacy, in the pharmaceutical industry and outside, by the sound advice and assistance he was always willing and able to give to individuals and by the consistently high quality of his work for pharmacy and pharmacists. Even those whom he hit hardest in fighting the battles in which he engaged recognised his skill as an adversary and, aware that it carried with it no personal animus, held him in high personal regard. Indeed, some of his most valued friendships developed out of the mutual respect engendered in the course of fierce debate round the conference table.

Those conversant with the development of the pharmaceutical service under the State schemes over the thirty years during which he guided the contractors' representative body are all aware that he was a skilled negotiator. To secure full satisfaction for all the legitimate aspirations of retail pharmacists in that sector of their professional activities lay beyond his control; but the extent to which he succeeded and the deep confidence which was rightly accorded to him were amply attested over the years by the personal acclaim and warmth of feeling with which successive Pharmaceutical Committee conferences greeted him and acknowledged him as their leader.

Even after his day-to-day conduct of the work of the Union ended in 1949, when his retirement was largely enforced by the strain he had imposed on himself in the anxious years that had preceded the inception of the National Health Service, he continued to take the liveliest interest in the fortunes of retail pharmacy, and the wealth of his experience and mature judgment were at all times available whenever new problems arose or old problems revived. To his staff he was not only an inspiring leader but a well-loved chief, whose passing is mourned as that of a true friend.

Xrayser writes: Doubts expressed when Mr. Mallinson was appointed secretary of the National Pharmaceutical Union (then called the Retail Phar-

macists' Union) were soon dispelled; the fitness of the choice has long been recognised. Beneath his confident manner there was a shrewd foreknowledge of any opposition that he might have to meet in upholding the rights of members of the Union. Among his many services to pharmacy was his giving evidence in 1936 before a Select Committee of the House of Commons on medicine stamp duties. "The Future Policy of Pharmacy," circulated by him in 1941, attracted less attention than it might have done, partly because it was in typescript, and partly because of the urgency of war problems. The abstract of it in your issue of October 4, 1941, is still worth reading. The success of the Union owes much to his guidance.

Mr. H. E. Chapman (secretary of the Proprietary Articles Trade Association) writes:—From almost daily contacts with George Mallinson at Bloomsbury Square as his junior in the years from 1919, I came to assess the qualities of shrewdness, organising ability and determination that were allied to his practical knowledge and understanding of the problems of the pharmacist in retail business. Like so many of us engaged in administrative work in pharmacy, Mallinson derived inspiration from Sir William Glyn-Jones, with whom he worked in close association and regarded with affectionate respect. They were jointly concerned in ensuring the successful working of the

original National Health Insurance scheme and co-operated in the formation of the Retail Pharmacists' Union, of which Mallinson was the predestined secretary. Though he had a full appreciation of the value to chemists of the price-protection system of the Proprietary Articles Trade Association, there were times when Mallinson voiced strong criticism of some aspects of its policy. Before he retired, however, the harmony and co-operation that had so long existed between the two organisations was again complete. From 1947, when the threat to the existing system of price-protection became apparent, Mallinson represented the N.P.U. on the Fair Prices Defence Committee, and was a tower of strength in deliberations. My last contact with him was at a meeting of the trustees of the Glyn-Jones Memorial fund; and though the failure in his health was then apparent, he voiced his determination to attend the complimentary dinner (in process of arrangement) to be given by pharmacist-barristers to Sir Hildreth Glyn-Jones on his appointment as a Judge of the High Court. To his (and our) regret his health did not permit him to make the journey to London. Mallinson's passing removes a friend for whom I had a great affection and respect, and means for retail chemists the loss of a builder and fighter to whom they owe more than perhaps many of them (particularly of the younger generation) realise.

DEATHS

BIRT.—Recently, Mr. Henry Birt, M.P.S., 20 Bury Crescent, Gosport, Hants, aged seventy-five. Mr. Birt was in business at 6 The Brittox, Devizes, Wilts, 1925-45, in the pharmacy now owned by a son, Mr. R. N. Birt, M.P.S.

BROWN.—Suddenly, on January 1, Mr. William Brown, M.R.C.V.S. (editor of the *Veterinary Record* for more than thirty years), Wilscombe, Bannings Vale, Saltdean, Sussex, aged sixty-five.

CAMPBELL.—At his home in Montreal, Canada, on December 18, 1953, Mr. William M. Campbell (chairman of Johnson & Johnson, Ltd.), aged sixty-five. Associated with the surgical dressing company since 1911, Mr. Campbell rose from the post of salesman to the presidency. Born in Toronto, he joined Messrs. Johnson & Johnson in that city, where he remained until his appointment as sales manager in Montreal in 1931, a position he held until 1936. He was appointed vice-president in charge of sales in Montreal, later executive vice-president, and finally, in 1947, president. Mr. Campbell was also president of Personal Products, Ltd., and a director of Chicopee Manufacturing Co., Ltd.

CHAPMAN.—On December 30, 1953, Mr. Fitzroy Keith Chapman (chairman of Spencer, Chapman & Messel, Ltd.), Ashdown Place, Forest Row, Sussex, aged eighty-two.

HAINES.—On December 13, 1953, Mr. Richard J. Haines, Willow Cottage, Terminus Avenue, Bexhill-on-

Sea, Sussex, aged sixty-five. Mr. Haines joined the staff of Burgoyne, Burbidges & Co., Ltd., in 1902, and was appointed a representative in 1926. He retired in 1949.

HALL.—On November 30, 1953, Mr. Alfred William Hall, M.P.S., 39 High Street, Pinner, Middlesex, aged eighty.

KING.—At Watford Peace Memorial Hospital, Watford, Herts, on December 28, 1953, Mr. William Frederick King, 46 Brookdene Road, Oxhey, Watford, aged seventy. Mr. King was for thirty years with Pond's Extract Co., Ltd., successively as representative, sales manager and sales director, retiring in October 1949.

LAWSON.—At the West Middlesex Hospital, on December 20, Mr. Arthur Lawson, M.P.S., 46 Bell Road, Hounslow, Middlesex, aged ninety-five. Mr. Lawson was believed to have been on the register of chemists and druggists longer than any other person still in practice when he retired in July 1953. A long account of his career was given in the *C. & D.*, 1952. I. 681.

PICKARD.—In Glanford Hospital, Brigg, Lincs, on December 28, Mr. William Pickard, M.P.S., The Croft, St. Helens Road, Brigg, aged fifty-four. Mr. Pickard was for the past twenty-five years manager of the branch of Boots, Ltd., in Brigg.

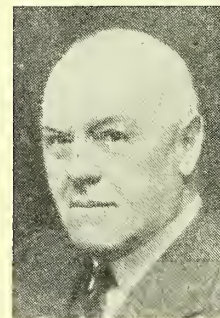
REID.—At an infirmary at Paisley, Renfrews, on December 26, 1953, Mr. William Reid, M.P.S., 6 Smithhills Street, Paisley. Mr. Reid qualified as a chemist and druggist in 1903.

TICE.—Recently, Mr. Lennox Tice, St. Vincent de Paul Home, Anthabasca, Alta, Canada. Mr. Tice qualified as a chemist and druggist in 1904.

WARD.—On December 17, 1953, Mr. Ernest Baker Ward, M.P.S., 32 Midway Road, Leicester, aged seventy-seven.

PHILLIPS.—On December 23, 1953, Mr. John Phillips, M.P.S., 146 Great Portland Street, London, W.1, aged seventy-one.

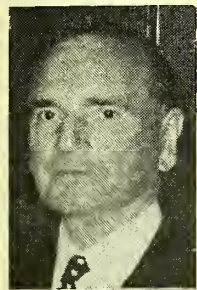
HARBIN.—At Kimpton, Lower Durford, Petersfield, Hants, on January 2, Mr.



George Albert Harbin, M.P.S., aged eighty-two. Mr. Harbin served his apprenticeship with Timothy White & Co., Ltd., remaining with the firm after qualification. In 1928, when Timothy Whites (1928), Ltd., was formed as a public company, Mr. Harbin was appointed a joint managing director, in which capacity he served until the amalgamation with Taylors (Cash Chemists), London, Ltd., and Taylors (Cash Chemists), Trust, Ltd., in 1934, when Timothy Whites & Taylors, Ltd., was formed. Mr. Harbin remained a director of the new company until his retirement some years ago.

NEW YEAR HONOURS

THE following are included in the Queen's 1954 New Year's Honours list:—



Sir Stanley Holmes
(Baron)

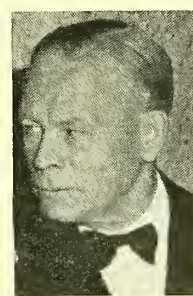
Dental Board), Mr. C. G. G. Hayman

(chairman, management committee, Distillers Co., Ltd.), Dr. F. T. Rees (a former director of medical services, Ministry of Pensions); *C.B.*: Dr. G. A. Clark (principal medical officer, Ministry of Health); *C.M.G.*: Colonel H. W. Mulligan (director, West African Institute for Trypanosomiasis Research); *K.B.E.*: Sir Robert Bird, Bart. (son of Mr. Alfred Bird, chemist and druggist, originator of Bi d's custard), John Campbell Baron Trent (chairman and managing director, Boots, Ltd.); *C.B.E.*: Mr. B. A. Southgate (director, water pollution research laboratory, Department of Scientific and Industrial Research); *M.B.E.*: Mr. W. C. Johnson (chief chemist, Baird & Tatlock (London), Ltd.); *C.V.O.*: J. P. Duff (chair-

man, Northern Ireland General Health Services Board).



Lord Trent
(K.B.E.)



Mr. C. G. G. Hayman
(Knight)

man, Northern Ireland General Health Services Board).

TROPANE ALKALOIDS FULLY SYNTHESISED

Commercial Production Established at Edinburgh

THE total synthesis of tropane alkaloids (atropine, homatropine, hyoscyne and hyoscyamine) on a full commercial scale has been achieved as a result of work done during the past three years in the laboratories of T. & H. Smith, Ltd., Edinburgh, producers of those alkaloids from natural sources for nearly fifty years. Up to the present

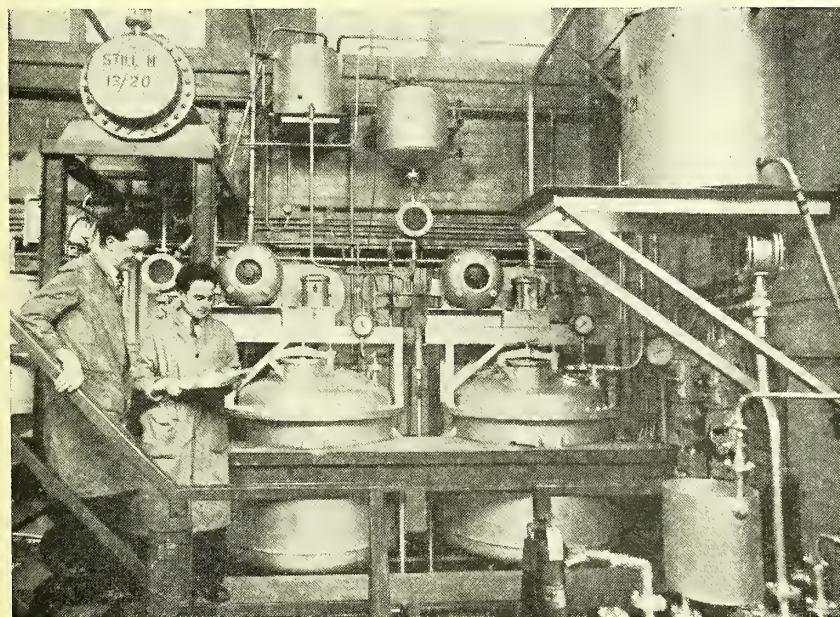
The main obstacle in what, on paper at least, appears to be a straightforward synthesis has been the preparation of succindialdehyde. Until recently the only feasible route was from pyrrole, and the process is uneconomic. Furan has lately attracted attention as a raw material. Workers in the U.S.A. and in Britain have shown independently

latter, in the form of homatropine methylbromide, has achieved considerable popularity in the treatment of gastric disorders, including gastro-intestinal spasm and peptic ulceration. Atropine methonitrate is finding increasing use in bronchial asthma and symptomatic relief of whooping cough.) Tropic acid is required for the production of atropine and an improved synthesis suitable for large-scale operation has been worked out and established. Considerable study was also required to develop processes for the manufacture of the alkaloids. Hyoscyamine (the laevo-rotatory isomer of atropine) can be produced by optical resolution.

The importance of the tropane alkaloids has been emphasised recently by the fact that atropine is recognised as the only proven antidote to nerve gases. Those gases, which are related to the organic esters of phosphoric acid derivatives used as systemic insecticides, were already in existence before the end of the 1939-45 war and are recognised as a powerful potential weapon. They act as anticholinesterases, with consequent production of toxic symptoms such as convulsion, unconsciousness and death, resulting from an accumulation of acetylcholine. Atropine can therefore be regarded as a strategic material, and its production by synthesis may be regarded as eliminating the need for bulky imports of plant material in time of war.

Tropine and tropic acid are constituents of other synthetic drugs, and further possibilities have been raised by the recent report that the alkaloid tigloidine (a minor alkaloid of *Duboisia myoporoides*) was of value in Parkinson's disease. Although confirmation has not been published, supplies of the drug produced by synthesis were made available for clinical trial. The required pseudo-tropine can readily be produced from tropinone.

The number of naturally-occurring alkaloids and other active principles that have been successfully synthesised on a commercial scale is relatively small. The addition of the tropane group is a significant indication of the increasing importance of synthetic work in the pharmaceutical field.



Part of works-scale plant used in the manufacture of synthetic tropane alkaloids by T. & H. Smith, Ltd.

natural sources have been employed for the production of all the tropane alkaloids though the synthesis of atropine and its constituent basic alcohol tropine was one of the earliest alkaloid syntheses carried out (Willstätter, 1896; Wolfenstein and Mamlock, 1908). Despite the greatly improved synthesis introduced (1917) by Robinson in preparing tropinone, the precursor of tropine, by condensation of methylamine, succindialdehyde and acetone, natural imported raw materials have continued to find favour. The plant sources used have included *Atropa belladonna*, *Hyoscyamus muticus* and, more recently, *Duboisia Leichhardtii*.

that it can be used as an economic source of succindialdehyde.

The conversion of furan to succindialdehyde and condensation of the latter with methylamine and acetone are outwardly straightforward. In all technical syntheses considerable investigation is required to bring yields at all stages up to an economic level. The work done at Edinburgh has resulted in establishing the production of synthetic tropine. Some of the processes are the subject of patents issued or applied for.

Further problems are connected with the preparation of the derived alkaloids, atropine and homatropine. (The

TRADE NOTES

Display Bonus.—During January and February a special display bonus parcel of Innox barrier cream is offered to chemists by Innox (England), Ltd., 1 Eden Street, London, N.W.1.

Display Outer.—The sachets of Silvikrin liquid shampoo are now available in a distinctive new display outer holding three dozen. The makers are Silvikrin Laboratories, Ltd., County Building, Honeypot Lane, Stanmore, Middlesex.

Exclusive Distributors.—B.G.P. (cosmetics), Ltd., 37 Chesham Place, London, S.W.1, have been appointed exclusive distributors in the United Kingdom for the perfumery of Jacques Fath, Paris. Stocks are now available in London.

In Touch with Headquarters.—J. R. Gibbs, Ltd., wholesale chemists and druggists, Manor Avenue, Paignton, South Devon, state that they have direct telephone lines to head office from 29 Alma Vale Road, Clifton, Bristol (telephone: Bristol 33061 — three lines).

Again in Full Supply. — Keldon, Ltd., Perivale, Middlesex, announce that Optrex eye compresses, packed in attractive jars of six, are again available in the original, thick, super-absorbent, pre-war quality but at a price increase ("in spite of this they are even better value than ever").

A Smaller Size.—Upjohn of England, Ltd., 4 Aldford Street, London, W.1, announce that Biosulfa 250M is now available in bottles of twelve tablets as well as in the original pack of twenty-five. The new size enables pharmacists to dispense in a sealed pack the most commonly prescribed number of tablets.

An Improved Tablet.—Pharmaceutical Laboratories Geigy, Ltd., Rhodes, Middleton, Manchester, introduced on January 1 an improved Siogen compressed tablet, replacing the earlier sugar-coated tablet. Siogen, containing the bactericidal and fungicidal compound 5-7 dichloro-8-hydroxyquinaldine, is intended for administration in mouth and throat infections.

Marketing Change.—Since January 1 the Lasso products made by Herts Pharmaceuticals, Ltd., have been marketed by Smith & Nephew, Ltd., Bessemer Road, Welwyn Garden City, Herts. Further development of Lasso technical tapes and research into new methods and materials is being carried out by Smith & Nephew Research, Ltd.

Office-methods Monthly.—The first issue of new monthly, *Office Magazine*, has been published by Current Affairs, Ltd., 174 Brompton Road, London, S.W.3. The journal sets out to assist office people in finding and applying better ways of carrying out their work. It deals with staff relations, modern methods, and new materials and equipment. The first number contains forty pages and includes a message from the Minister of Labour (Sir Walter Monckton).

Sea Warriors use Paste Cleanser.—An unsolicited "testimonial" to Chemico paste cleanser, manufactured by the County Chemical Co., Ltd., Birmingham, appears in "Above us the Waves," the story of British midget submarines and human torpedoes. "We all felt very cold," wrote the authors, "but thought we had better wash over the side to brighten ourselves up a bit. . . . We tried the specially issued salt-water soap and found it about as much use as a piece of coal, so we used Chemico instead."

Bonus Terms.—A display bonus offer of Benger's food, under which the makers, BENDER'S, LTD., Holmes Chapel, Ches, give a choice of three bonus parcels for fourteen days' display, closes on February 27. — Bonus discounts are allowed on Cooper's aerosol insecticide on a points system devised by the makers, COOPER, McDUGALL & ROBERTSON, LTD., Berkhamsted, Herts. — An offer by DAE HEALTH LABORATORIES, LTD., 17 Berners Street, London, W.1, of fourteen Val-pak to the doz., closes on January 18.

Accepted for Transfusion Purposes.—The British Standards' Institution has accepted Dunlop silicone rubber tubing for blood transfusion equipment. Its chief advantage over natural rubber tubing is that it stands up against repeated heat sterilisations. As the tubing is also non-wetting, it reduces the tendency of blood to congeal, thus allowing the drip to keep going longer. A translucent type allows the blood to be seen passing along the tube, which is understood to have a certain psychological value. The manufacturers are Dunlop Rubber Co., Ltd., general rubber goods division, Cambridge Street, Manchester.

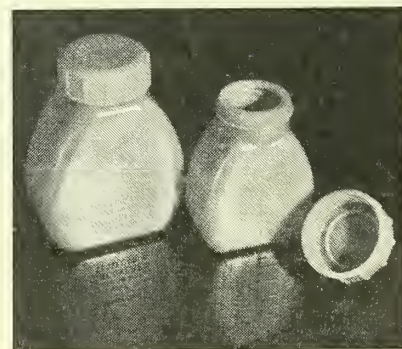
NEW PRODUCTS AND PACKS

Oral Penicillin.—An oral suspension, Permapen brand of dibenzylethylenediamine dipenicillin G, offered by Pfizer, Ltd., Folkestone, Kent, is claimed stable for twenty-four months without refrigeration. The product is agreeably flavoured and ready for use. The pack is a 60-c.c. bottle (60,000 units per c.c.).

C.F. Barrier Cream.—Evans Medical Supplies, Ltd., Speke, Liverpool, 19, launched on January 9 two new barrier creams, Handguard D for dry and dirty work and Handguard W for wet work. The products are on the C.F. list and have been developed after several months' laboratory work followed by trials in industrial concerns and by a number of individuals. Handguard is issued in attractive outers of 1 doz. Display material, showcards, and counter leaflets will be available in the near future.

Polythene Sputum Flasks.—The latest application of polythene as a hygienic, tasteless, odourless, unbreakable material, unaffected by foodstuffs and resistant to most chemicals and to sterilising solutions, is for sputum flasks. They are light brown in colour and translucent to enable the contents

to be measured against the permanently engraved graduations. They are flat, pear-shaped and available in 4-oz. pocket and 8-oz. domestic or clinical



sizes. They may be sterilised in boiling water (in an uncovered vessel only) or preferably with Milsol sputum disinfectant (see *C. & D.*, 1953. II. 633). The flasks, as illustrated, are manufactured by Fibrenyle, Ltd., 157 Dukes Road, Western Avenue, London, W.3, and are available from usual wholesalers or direct.

Warfarin Rodenticides.—C. F. GERHARDT, LTD., 5 Fenchurch Street, London, E.C.3, point out that their speciality Dethmor-Warfarin is the only product made in the United Kingdom recognised and approved by the Wisconsin Foundation, discoverers of warfarin, and that it is prepared to the specifications of the Ministry of Agriculture.—SOREXA (LONDON), LTD., Tonbridge Road, Maidstone, Kent, claim that their product Sorex is the original British warfarin rodenticide.—THOMAS HARLEY, LTD., Rodine Works, Perth, are marketing Rodine warfarin powder rat and mouse killer. — KAY BROTHERS, LTD., Reddish, Stockport, offer Kay's warfarin in two strengths (against rats or mice).

British-made Carbon Black.—Arrangements have been made for the manufacture in the United Kingdom of Kosmos and Dixie grades of furnace carbon black previously produced only in the United States. A long-term agreement has been reached whereby United Carbon Co., Inc., is making its technical knowledge and engineering experience available to United Carbon Black, Ltd., Swansea, for the purpose of establishing standards and ensuring control of quality. Modifications of plant and processes are in progress, and plans have been made for the construction of additional capacity. A general-purpose furnace black is being marketed as Dixie 45 and Kosmos 45 by the selling agents of United Carbon Co.; Anchor Chemical Co., Ltd., and Chance and Hunt (a section of Imperial Chemical Industries, Ltd.). It is planned to produce other types of furnace black similar to the grades manufactured by Messrs. United Carbon in America. The arrangements will enable customers of United Carbon Co., Inc., to obtain prompt delivery of furnace blacks of the highest quality against payment in sterling.

BRANCH AND ASSOCIATION MEETINGS

SWANSEA

Statutory Committee

At a meeting of the Swansea and West Glamorgan Branch of the Pharmaceutical Society held in Swansea recently, Mr. D. F. Jones (chairman) presiding, Mr. W. S. Howells (treasurer of the Society), gave an address on "The Statutory Committee." The address stimulated much discussion.

TEES-SIDE

Resolution on Forces Status

A GENERAL meeting of the Tees-side Branch of the Pharmaceutical Society recently passed the following resolution for submission to the Society's Council:—

That despite branch activities and Council promises in the matter, the Tees-side branch deplores the apparent lack of interest and purpose on the part of the Pharmaceutical Society's Council in securing pharmacists a proper status, identification and recognition in H.M. Forces as already obtained in all Continental armies and in the Dominions.

Only one resolution was submitted for the Branch Representatives' meeting to be held in May 1954. It concerned the Society's journal.

The meeting had an attendance of over fifty.

MANSFIELD

The Public Health Services

At a meeting of the Mansfield Branch of the Pharmaceutical Society held in Mansfield recently, Mr. P. D. J. Spaanderman (chairman) presiding, Dr. Drummond (Mansfield medical officer of Health) gave an address on "Preventive Medicine." DR. DRUMMOND traced the history of the development of public health services at the national level and of the borough medical services at Mansfield. He drew attention to the rising cost of the National Health Service and pointed out the heavy burden on the wage-earner due to the ever-increasing number of aged persons in the population. The remedy was, in his opinion, to place more emphasis on preventive medicine, as "prevention was not only better than cure but also much cheaper than cure."

STIRLING

Whist Drive

A WHIST drive was held by the Stirling and Central Scottish Branch of the Pharmaceutical Society in Stirling recently. Mr. William C. Yule (chairman of the branch) welcomed the company and acted as cardmaster. At the close of play, Mrs. Imrie (wife of the vice-chairman) presented the prizes. The winners were as follows:—*Ladies*, 1, Mrs. J. McEwen, Bannockburn; 2, Mrs. D. W. Foster, Dunblane; 3, Mrs. T. Clark, Kilsyth; 4, Miss A. Baxter, Stirling; 5, Miss Waddell, Tillinoultry; 6, Mrs. C. B. Cullen, Stirling; consolation, Mrs. Storrar, Kilsyth. *Ladies playing as gentlemen*, 1, Mrs. C. Eggo, Stirling; 2, Mrs. Owen, Stirling. *Gentlemen*, 1, Mr. A. Gonnella, Callander; 2, Mr. J. Gray, Stirling; 3, Mr. P. Hughes, Stirling; 4, Mr. J. M.

Cullen, Stirling; 5, Mr. W. Oswald, Stirling; 6, Mr. A. Cowan, Bannockburn; consolation, Mr. F. Logan, Kilsyth.

SOUTHEND

The Ministry and the Retailer

AN address on "The Work of the Ministry of Health in Relation to the Retail Pharmacist" was given by Dr. H. Davis (chief pharmacist, Ministry of Health) at a meeting of the Southend-on-Sea Branch of the Pharmaceutical Society held in Southend recently. DR. DAVIS outlined the functions of the various departments at the Ministry which included divisions dealing with hospitals, pharmacy, optical services and dental services. Pricing difficulties and delays, he said, had been influenced by the increase in prescribing of proprietaries which had grown since 1948 from about 7 per cent. to 26 per cent. of all prescriptions. The change from the Imperial to the metric system of weights and measures had meant an increase in the work involved in the maintenance of the Drug Tariff. Other difficulties had arisen in the purchase and handling of drugs under the new system but it was very probable that there would be an overall benefit once the system was established. British medical supplies sent to Holland for the use of flood victims there could not be used owing to the unfamiliar nomenclature and imperial dosage instructions on the labels. The present drug testing scheme was more efficient and equitable than that of the old National Health Insurance system. The adjustment of penalties by the Minister of Health allowed of some correlation of the penalties for similar breaches of contract over the whole country. Generally speaking there was evidence of a high standard of dispensing in Britain.

EAST LONDON

The Most Disciplined Profession

At a meeting of the East Metropolitan Branch of the Pharmaceutical Society held in Ilford recently, Mr. G. H. Hughes (a member of the Society's Council) gave an address on "Today in the Pharmacy." The Council, he said, had accepted the decision of the members of the Society that there should be no registration of unqualified assistants. The new code of ethics had been universally accepted in the desire to raise the status of the profession. Pharmacy was the most disciplined profession there was. Mr. Hughes mentioned inspection by the police, by the Society's inspectors and the Health Service testing scheme: the latter was "iniquitous." There had been no attempt by pharmacists to defraud on a large scale and it was a cheap way of testing the integrity of the pharmacist. It was a pity it had not been possible to raise the financial standard of the hospital pharmacist to that of his retail colleague.

Answering questions Mr. Hughes made these points: It was best for branches, particularly those outside London, for their officers to serve for

no more than two years in one capacity. Long periods as chairman or secretary by one individual tended to make others lose interest.—It would not be a good move to levy compulsorily, by way of the registration fee, a contribution to the Benevolent Fund and Birdsgrove House. The essence of those efforts was their voluntary nature. In his opinion it was ethically wrong for a pharmacist joining a rota scheme to remain open when it was not his turn to do so.

PORTSMOUTH

Review of the Year

AT the annual meeting of the Portsmouth Chemists' Association in Portsmouth recently, the president (Mr. N. L. Banks) presented his annual report. The report refers to election to the council of the Proprietary Articles Trade Association, of the secretary of the Portsmouth Association (Mr. J. C. Bloomfield). The committee had examined the proposal, made at last year's annual meeting, to initiate an Association medal in place of the customary prize presented to a student of the Portsmouth Municipal College. The committee concluded that the cost would be out of all proportion to its value and recommended that the successful student be given a book voucher enabling him or her to purchase books, specifically technical but not necessarily pharmaceutical, the subject for which the award would be made, to be agreed between the committee and Mr. E. Thorpe (head of the pharmacy department). At the annual meeting in June the Association had agreed to amend its rules to enable certain proprietors who had converted their businesses to private limited companies to retain membership.

The meeting passed the committee recommendation "that the treasurer of the Association be made responsible for monies donated from the collecting box scheme in aid of pharmaceutical charities," and the members recorded their appreciation to Mr. R. G. Tremlett for his services in that connection in the past. The association also decided to continue its affiliation subscription to the local Chamber of Commerce, and to continue its annual pharmaceutical prize at the Municipal College.

DURHAM

Colour Photography

THE November 1953 meeting of the Durham County Branch of the Pharmaceutical Society took place recently in Durham City. Mr. J. Wellsman (Agfa, Ltd.) gave a talk on colour photography. For printing directly in colour by the "negative-positive" process MR. WELLSMAN explained the colours were first reversed to complementary ones. On the negative, blue showed as yellow, green as magenta, and red as cyan. Most colour film consisted of three layers sensitive to different coloured light, and a yellow filter layer, which absorbed blue light. The top layer was sensitive to blue light, then came the yellow filter, fol-

lowed by a layer sensitive to green and blue light, and the layer (nearest the film base) sensitive to red and blue light. After exposure, which must be correct, because less latitude was permissible than with ordinary film, the film went through colour developers, arranged so that complementary dyes were produced in the respective layers. Exposure on paper of similar structure then took place. Test strips were used to find most suitable exposure times, the paper was made in two grades, about the speed of bromide paper. Thirty-three filters were used during printing to correct the colours. Development of the paper was similar to that of the film. Mr. Wellsman said that one of the chief reasons for the high price was that the material must be perfect because large batches might have to be rejected during manufacture. It was hoped that in the near future chemical packs to enable home processing would be made available. It was practically impossible to get an absolutely perfect colour rendering using a three-colour process, but as the human eye was a bad register of colour for any length of time, the slight variations were not noticeable unless close comparison with the original was made. Under-exposure caused peculiar colour effects, it was better to over-expose than under-expose.

BRISTOL

Importance of Drugs in Anaesthesia

AN address on "Anaesthetics" was given by Dr. R. Woolmer (senior lecturer in anaesthetics, University of Bristol) at a meeting of the Bristol Branch of the Pharmaceutical Society held in Bristol recently. DR. WOOLMER emphasised that a close contact existed between the department of anaesthetics and the pharmaceutical department in a hospital. An anaesthetist seeks to produce in the patient unconsciousness, diminished reflexes and muscular relaxation. Until recently all those stages were reached by administering massive doses of a general anaesthetic, such as ether or the barbiturates, and the recovery of the patient was often prolonged and distressing. Drugs chosen for their specific action enable the patient to recover much more quickly and with less discomfort. The introduction of muscle relaxants enabled the dose of general anaesthetic to be greatly diminished. The only drug which, usefully, diminishes reflexes is pethidine.

An ideal method of anaesthesia would be amenable to continuous variation to meet the changing stresses of an operation which might last for four or five hours. By the use of gases and easily volatilised liquids such as nitrous oxide, ether or trichlorethylene with the proportions and amount measured and continuously controlled, unconsciousness of appropriate and varying depth, can be, approximately attained. Succinyl choline, with a three-minute duration of action, controls muscular relaxation with a corresponding degree of flexibility. Diminished reflexes, with only the relatively long acting pethidine (about twenty to thirty minutes) avail-

able are not so flexibly controlled. When a range of drugs becomes available with specific action at the appropriate levels, and with a short time of action before being neutralised and eliminated, the anaesthetist will be able to exercise his function to the greatest possible advantage.

The meeting had a good attendance including many students of the Bristol College of Technology.

DUNDEE

Students' Night

A MEETING of the Dundee and Eastern Scottish Branch of the Pharmaceutical Society held in Dundee recently, Mr. D. McKiddie in the chair, took the form of a "Students' Night" at which pharmacy students from the Dundee Technical College gave short talks on "The Point of View of the Apprentice and Student." MISS A. PICKARD said that the proposed examination for unqualified assistants constituted a definite danger to young pharmacists as proprietors of small shops would employ "semi-qualifieds" instead of young pharmacists. Dealing with the relationship between pharmacists and students MR. D. W. RICHARDSON said that, in general, pharmacists showed little interest in students' education and affairs. The retail pharmacist seemed to be "shirking his responsibilities" in training apprentices. Perhaps he was so prospering under the National Health Service that he could afford to ignore what used to be regarded as a source of assistants requiring moderate salaries. One way in which the retail pharmacist could help students was in providing vocational employment. Mr. Richardson gave as his explanation of the high percentage of examination failures an erroneous belief held by some entrants that pharmacy study was easier than pure science or medicine. The conditions of entry should be made more severe.

MR. T. BRONN, dealing with the examination syllabus, suggested that the subject that should be regarded as second in importance (pharmaceutics was still the most important) was pharmacology, not pharmaceutical chemistry. Assays could be left to analytical chemists but the pharmacist needed to know more about the action of the drugs he supplied. The Qualifying examination was a feat of memory and it would perhaps be better if it were split into two parts. MR. A. P. JONES declared himself as opposed to the unification of the registers of chemists and druggists and Pharmaceutical Chemists. When that was done, he said, people would be receiving the title of "pharmaceutical chemist" who, having no experience of modern techniques were not worthy of it. The differences between the syllabus of today and those of the past should be the great developments that had been made since many of the old chemists and druggists qualified. He suggested compulsory post-graduate classes for the chemists and druggists who were being made pharmaceutical chemists. Dealing with the problem of pre- or post-graduate apprenticeships, Mr. Jones said he favoured the latter for the following reasons:—1. Principles learned in college could be applied. 2. The relationship between

the pharmacist and apprentice can be mutually advantageous: the pharmacist could learn the more modern methods from the apprentice. 3. The post-graduate apprentice would be of more use than a pre-graduate one because of his greater experience. 4. One year is saved. MR. BLACKLEY said it was high time pharmacists in H.M. Forces had commissioned rank. He hoped the Society would do more to bring about that end.

THE CHAIRMAN distributed prizes which he had himself provided to the best students at the College in the final and second years who were respectively Miss A. Pickard and Mr. A. A. Benedetti.

SOMERSET

Branch Representatives Elected

AT a meeting of the Somerset Branch of the Pharmaceutical Society held in Weston-super-Mare, Somerset, recently, Mr. D. T. Evans in the chair, the following were elected to represent the Branch at the Society's Branch Representatives' meeting being held in May 1954: Messrs. Evans, W. J. Hammond and K. E. Jordan. Reserves: Mrs. P. Adams, Messrs. H. M. Lovell and N. E. Maggs. Mr. A. J. Plowright (assistant secretary of the Society) then addressed the meeting on "The Educational Work of the Society." The Society's educational policy, he said, was aimed at the improvement of the individual pharmacist and of the profession. Emphasis was laid on education as distinct from instruction: it was more important that the student should be able to work from first principles rather than "cram a lot of book knowledge." Pharmacists could increase public regard for themselves and for the Society by their conduct, by the condition of their pharmacies and by taking an active part in local affairs, e.g. on town councils. Contact should be maintained with careers masters and mistresses at Grammar schools to ensure that they had accurate information on the profession. Care should be taken in approaches to Government departments and to the fighting services to ensure that they got a correct view of matters affecting Pharmacy.

The two following resolutions for submission to the next Branch Representatives' meeting were proposed by MR. H. M. LOVELL and seconded by MR. N. F. MAGGS. They were passed by the meeting.

1. That it is the opinion of this conference that the present educational policy of the Society is such that (a). The short period of training in retail or hospital pharmacy is a deterrent to would-be apprentice masters. (b). The examinations, the expense of two years training at a recognised college, without a thorough insight into the daily work and duties of either retail or hospital pharmacy is a definite deterrent to boys about to choose a career.

2. That it is the opinion of this conference that the very poor financial rewards which are offered in pharmacy, especially hospital pharmacy, compared with those which are obtained by an artisan is definitely deterring many male students from even considering pharmacy as a career.

A collection for the Benevolent Fund taken during the meeting realised £2 15s. 3d.

FIGURES IN THE PHARMACEUTICAL WORLD

"IN Scotland," wrote a former Editor of THE CHEMIST AND DRUGGIST in 1916, "girls who are apprenticed to pharmacists have exactly the same outlook as boys, and there is something in this opportunity and bitter necessity (of having to keep themselves) that makes them business women right from the beginning." A profound knowledge of conditions in both Scotland and England prompted that remark. It was made, too, with special reference to Miss A. T. Borrowman, Ph.C. (at that time manager of the distinguished Clapham pharmacy founded by Henry Deane) who has amply demonstrated her business acumen through two-score years. Yet we take leave to doubt whether Miss Borrowman had "the same outlook as boys." She would have some cause to look at life rather differently, because to her economic "bitter necessity" was added the obstacle of a prejudice against girls or women in pharmacy at this time as frustrating in Scotland as in England, and perhaps more so. Having a farmer father who commanded great local respect secured for her an apprenticeship with Mr. D. F. Johnstone, Melrose, but she had to remain out of sight of customers lest the prestige of the business should suffer. To secure a post in Edinburgh on completion of her apprenticeship was a matter of supreme difficulty, but finally Mr. W. Lyon, Ph.C., was prevailed upon to accept her as assistant. In Edinburgh she was able to attend the classes of Mr. Cowie and to pass the Minor examination in 1903.

Singled out for Research

Coming south to England, Miss Borrowman took posts with Mr. Beetham Wilson, Dorking, and at Slough, and was all the time fired by a determination to sit for the Major examination. That was economically possible thanks only to six years of hard saving. In all other respects, for she was an apt student, it presented no difficulty. In fact, Professor Crossley singled her out for work in research rather than that she should return to retail, and a post was secured for her in the laboratories of a rubber research chemist in London. At the International Rubber Exhibition, London, 1912, she became the first woman ever to read a paper at a gathering of that sort. Shortly afterwards Miss Borrowman joined, then a pioneer in women's pharmaceutical education, Miss M. E. Buchanan, in acquiring the Henry Deane pharmacy, and in that business she has remained ever since, for part of the time as proprietor. The business is now a limited company, with herself and Miss H. F. Wells as directors. High pharmaceutical standards, judicious arrangement and sheer good house-keeping make the pharmacy a pattern to others, and keep it high in the traditions of its illustrious founder.

Successful and resourceful as a woman of business, Miss Borrowman has yet other claims to distinction. She was for some years an examiner for the Pharmaceutical Society. She re-



13—Miss A. T. BORROWMAN, Ph.C.

signed from that office in 1932 because, as she modestly puts it, the candidates were "getting ahead of her," not in dispensing but in pharmaceuticals. She would not linger on to allow some candidate, some time, "to discover he was teaching me something." At the same time Miss Borrowman surrendered also her membership of the pharmacy subcommittee of the Codex Revision Committee. At Clapham she has trained many women in the practice of pharmacy according to business principles, and her robust independence of outlook, accepting nothing that wits under the probing beam of logic, is still from time to time in evidence at pharmaceutical gatherings.

Miss Borrowman knows much about the history of the business with which she is so closely connected. After Henry Deane died, James Deane succeeded, "followed," she once wrote, "by two others whose names were submerged—so far as Clapham was concerned—in the Deane tradition. Which is where I hope my name will likewise be submerged."

It is greatly more probable that Miss Borrowman's name will long be known and remembered in the annals of pharmacy no less than of Clapham.

At all events, members of the Pharmaceutical Society may expect some energetic crusading yet for the causes she has at heart.

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- DOXIDIONE tablets



The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Purchase Tax Cuts

ALTHOUGH the cuts in purchase tax rates announced unexpectedly this week do not directly affect retail pharmacists' stocks many pharmacists must be wondering what is going to happen to the tax on cosmetics, photographic materials and medicines. It will be recalled that some industries asked that any tax changes made should take place in January, since retailers' stocks were then at their lowest level. Possibly the Chancellor of the Exchequer had that in mind when making the present curious selection, or it may be that exports of the industries (or some of them) were materially affected by the high rate of tax in the home market. It is to be hoped the Chancellor will on his return from Australia give an explanation why he selected the items he did and left others—including medicines on which people only spend what they must—unchanged.

In the meantime there would appear little hope of any scheme of rebates for retailers, despite the many representations made to him by trade associations. When, or if, therefore, further reductions are made, retailers must again become seriously penalised.

It would be most rash to predict any further concessions, whether in the Budget or before. We must point out, however, what difficulty the Chancellor is making for himself in defending the continuance of purchase tax at a rate of 75 per cent. on toilet preparations and cosmetics when he has thought fit to reduce to 50 per cent. the rate on such articles as jewellery. No arguments that we have heard can any longer justify the tax on medicines.

Time and Temperature

WHILE the decision of the British Standards Institution to abolish the long-familiar time markings on clinical thermometers (p. 25) is no doubt a well-meant attempt at educating the public to the realisation of a hidden danger, it is not likely to meet with universal approval. The Institution points out that a nominal $\frac{1}{2}$ -minute thermometer may take more than thirty seconds to reach a steady temperature. Because of the possible danger involved, the use of that and other time indications on British Standard thermometers is therefore prohibited and in their place are substituted the vague terms "quick", "medium" or "stubby", indicating the three main types of standard thermometer. An explanatory slip is to be included with each instrument, informing the buyer—if he reads it—that the thermometer must be left in position for sufficient

time to ensure that the maximum possible indication is reached. Until it is lost that leaflet will also, no doubt, convey the same message to subsequent users of the instrument. Therein lies an important flaw in the method adopted, since the slip of paper may well prove to be ephemeral. Could not a more permanent method of announcement have been devised? For example, a plastic label that might be threaded through a glass ring incorporated in the structure of the instrument. Alternatively, could not a more realistic time indication have been adopted? The Institution suggests that one or two minutes or longer may be necessary for a nominal $\frac{1}{2}$ -minute thermometer to reach a steady temperature. Then why not give a 2-minute or even 3-minute marking? Time saving is not an important consideration in the taking of temperatures, and "quick" or "medium" may well be as misleading to a potential domestic user of a clinical thermometer as the description it replaces.

In fact the Institution, which has the backing in this instance of the medical profession and presumably the Pharmaceutical Society (because the latter body is represented on the Scientific Glassware and Related Laboratory Apparatus Industry Standard Committee under whose supervision the new standard was prepared), gives its case away by admitting that the success of the new standard will largely depend upon the extent to which the public can be persuaded to abandon the $\frac{1}{2}$ -minute, etc., markings. That task of persuasion will inevitably rest largely with the retail pharmacist. He will be doing a useful service if he only succeeds in persuading the public not to take those time markings at their face value, but to explain what is meant by "quick", and so on, may well tax his ingenuity. If we know the public, clinical thermometers bearing the traditional time markings are likely to continue in principal demand from chemists for a long time to come.

When is a Serum not a Serum?

ON January 1 the Diseases of Animals (Therapeutic Substances) Order, 1952 (S.I., 1952, No. 1933) came into operation. The Order prohibits, except under licence, the importation or manufacture for sale in Great Britain of vaccines, sera, antitoxins and antigens for veterinary use. It also prescribes container and label standards.

The titles that have been approved by the Ministry of Agriculture and Fisheries for the controlled substances are those adopted for the monographs in the British Veterinary Codex. Many of those products are not sold over the counter, but farmers may be somewhat puzzled by the appearance of the description "antiserum" where "serum" has previously been used, e.g. "lamb dysentery antiserum." The term antiserum is becoming more widely used to differentiate between a natural serum and one that contains immune substances having a specific prophylactic or therapeutic action.

To the purist the new term will probably cause offence, and some may argue that anti-lamb-dysentery serum is time-consuming. It is noticeable that the Diseases of Animals Order defines and refers to "sera and antitoxins" and makes no mention of "antisera." The legal-minded (and veterinary and pharmacy students) may conjure up many arguments on the problem, and may even formulate a possible examination ques-

tion "when is a serum an antiserum," or vice versa?

To most it must appear unfortunate that modern science, which is attempting, with the new Order and Codex, as far as possible, to fix precise standards for veterinary drugs and preparations, has adopted a terminology that can be perplexing if not confusing.

Tonics and Tooth Damage

PARRISH'S food has come under fire because of a hitherto unsuspected drawback—that of possibly damaging deciduous teeth of children. The critics, Messrs. P. M. C. James and G. J. Parfitt, dentists at the Institute of Dental Surgery (*British Medical Journal*, 1953, 2, 1252) investigated Parrish's food and other iron tonics in a search for a source of chemical damage to teeth, which they suspected was the cause of sudden decay of children's teeth on the buccal and labial surfaces. A number of iron tonics, they found, were "very acid," even when diluted with an equal part of water. Such a dilution of Parrish's food, for example, had a pH of 1.9, to be followed in acidity by mist. ferr. sulph. pro infant., N.F. (2.28); and elix. ferr. gluconat. of the Royal Free Hospital (3.8). Mist. ferri et ammon. cit., N.F., when similarly diluted, was of pH 7.7; and Colliron was slightly alkaline, having a pH of 8.87. It was known that different acids have different decalcifying effects on teeth (e.g., lactic acid solution of pH 2.9 produced etching, but hydrochloric acid of pH 2.0 did not) and the workers carried out tests to investigate the effect of different iron tonics on calcification. Sound teeth were suspended with part of the crown below the surface of the tonics, and the already mentioned damage assessed after a week's immersion. The resultant degree of damage to the teeth was found to be proportional to the acidity of the solution. Syr. ferri phosph. co. caused the most damage, the exposed enamel flaking freely away from the cusps of the tooth. The mist. ferri sulph. produced severe etching and decalcification of the enamel, which could be scraped off the surface with a finger-nail. Elix. ferri glucon. R.F.H. produced very slight etching, with milky-white decalcified areas. No macroscopical effect was observed on the teeth immersed in mist. ferri et ammon. cit. or Colliron. The continued giving of Parrish's food, undiluted, from a teaspoon, which is the only way that a small child can take the medicament, would lead, the writers suggest, to decalcification of the labial surfaces of the upper incisor teeth, and the causation of dental caries. The sugar in the syrup would increase the risk. Damage does not necessarily follow the use of iron tonics. The effect of a tonic on the teeth depends on the acidity, frequency, length and method of administration, and on individual susceptibility. The writers hint that damage may not be limited to iron tonics, and note that a popular brand of blackcurrant syrup is of pH 3.

Overseas Trade in November 1953

UNITED Kingdom exports in November 1953 at £239.9 millions were higher than in any month since March 1952, though only twenty-five working days were involved. Monthly exports in the five months July to November averaged £220.5 millions, against £202.6 millions in the same period of 1952, but the increase does not fully offset the reductions in the first half-year

compared with the first half of 1952. Imports in November, at £272.2 millions, showed little change from those of recent months. The excess of imports (valued c.i.f.) over exports and re-exports (f.o.b.) was £23.5 millions.

The total value of drugs, medicines, and medicinal preparations shipped overseas during November (£2,718,275) was slightly higher than in October, but shipments of proprietary medicines at £597,689 were valued at about £2,000 less. The total of the chemicals group (which also includes heavy chemicals, dyes and colours) was at the record high level (for 1953) of £12,182,910. India maintained its position as the largest single market for U.K. medicines, the value being £240,819, including proprietary medicines at £40,960. Australia was next with £202,489 (proprietary medicines, £45,607). In those drugs for which individual statistics are shown there were no outstanding achievements. Aspirin, at £37,229, showed little difference from the October figure, whilst quinine, at £8,293, was at its lowest level for the year. Penicillin products showed an overall increase, due mainly to a greater shipment of injectable preparations. Penicillin export values were: Salts, £144,281; injections, £151,010; other preparations (tablets, lozenges, ointments, etc.), £64,628. Antibiotics other than penicillin accounted for £300,163. Other medicinal exports included insulin at £33,517; ointments and liniments, £87,804; anti-pudicids, £72,279; and sulphonamides, £263,557.

Total perfumery and toilet preparation exports were valued at £601,201, including cosmetics at £183,193 and dentifrices at £132,893. Exports of essential oils were, at £25,065, well below average, but perfumed spirits at £68,382 and toilet soaps at £265,179 were at their highest for any month so far in 1953.

On the imports side there was an increase in the volume of menthol to 11,288 lb. (valued at £17,909). Drugs, medicines and medicinal preparations also showed some rise over previous months and at £551,187 was the highest for three months. Imports of essential oils (£447,710) were well above those of any other month of the year, the largest single supplier being France, which shipped oils to the value of £113,113.

Thorium in the Dock

FOR so long (nearly twenty years) has thorium dioxide been used as a contrast medium in roentgenography, that there was a possibility its use could come to be accepted without question. It is, however, a radioactive substance. Even though few deaths attributable to its radioactivity have been reported, it has to be borne in mind that malignant tumours may take twenty years to develop to a point at which they attract investigation. Whether it has carcinogenetic effects needs, therefore, to be fully investigated. Some study has been given to the subject at the Chase Farm Hospital, Enfield, by Berenbaum and Birch (*Lancet*, 1953, 2, 852), who have reviewed relevant published reports and describe their own histological findings in a patient who twenty-three years previously had been given injections of thorium dioxide. They demonstrate that in that patient radioactive deposits were present in the liver. They make the charge that the doses of thorium commonly used are carcinogenetic, and advocate limiting the use of thorium as diagnostic agent to elderly patients (in whom its use may prevent or expedite a major operation).

Onward from Galen

A CURRENT CAUSERIE

"LEADERSHIP Against Tuberculosis" is the title of the recently issued report for 1952-53 of the National Association for the Prevention of Tuberculosis. Pointing out that, although the number of deaths in Britain from tuberculosis has fallen from 65,887 in 1851 to 13,806 in 1951, the number of freshly diagnosed cases is — in England and Wales — not falling and until recently has in point of fact been rising, the report declares that it has now become scientifically possible to "anticipate the ravages of this treacherous disease, to disarm its severity, and in time to eliminate it as a health problem." Mass radiography, which has handled over 10½ million people in the past ten years, discovering in the process 35,640 cases of active tuberculosis, is a subject of debate at the moment among medical directors in charge of it. Instead of attempting to cover average sections of the population, in whom the number of expected cases of tuberculosis would be three per thousand or less, many consider it would be more profitable to go for particular groups such as "school leavers," in whom the yield might be between six and ten per thousand. The Association is "astonished" that B.C.G. vaccine is not manufactured in Britain, when, as the report observes, it is realised that it is produced in Canada, the United States, India, Ceylon, Australia, Singapore, Indonesia, Turkey, China, Japan, three South American countries, the U.S.S.R. and at least ten European countries. In the two years ended in December 1951, about 47,000 vaccinations were given in Britain, a much lower proportion of the population than in several other countries. It is noteworthy that the Minister of Health is now prepared to approve schemes for the B.C.G. vaccination of school children by local health authorities (*C. & D.*, November 14, 1953, p. 483), and Perth and Kinross County Council has set such a scheme in operation (*C. & D.*, November 28, p. 530). A question asked in Parliament on December 10 (*C. & D.*, December 19, p. 606) indicates that the manufacture of B.C.G. vaccine in Britain is at least being discussed at a high level. Another hopeful line of development, not mentioned in the report, results from a recent finding that tubercle bacilli in a mass of sputum can be sterilised by treatment with a chlorine-based disinfectant.

★

THAT people come to chemists' shops for minor treatments, such as the removal of grit from eyes, is well known. Perhaps it is an unconscious or inborn survival of the times of the apothecaries. The practice is, however, something that any future historian of pharmacy in this country might never have known existed, because it is so unofficial and so taken for granted that it is not referred to in books. That situation has now been rectified—and in the Official History of the 1939-45 war. The second volume of *The Emergency Medical Services*, edited by Lieutenant-Colonel C. L. Dunn, C.I.E., I.M.S. (ret.), recently published, gives official recognition of the part which chemists played in this way during the air raids—although the reference is unfortunately omitted from the index. Giving figures for the casualties in the London area (20,102 killed, 26,054 injured and detained in hospital, and 47,046 slightly injured), the writer states: "There were also a number of slightly injured persons who never reported at first-aid posts, but were treated by their own doctors or at chemists' shops and the majority of these cases were never reported at all." One might have expected the official history of the Emergency Medical Service to say a certain amount about hospital pharmacies, but in that one is, in general, disappointed. The present volume, for instance, which deals with the history of the Service in Scotland—revealing, incidentally, that before the war it was anticipated that invasion

would be through that country—has only this to say about hospital pharmacists: "When, however, it is remembered that pharmacists, technicians of various kinds, occupational therapists, qualified maintenance staffs and so on had to be recruited both for the wholly new and the extended hospitals, the size of the problem presented in this relation will be apparent—the more so when the demands of the Armed Forces and of war industry on the dwindling resources are kept in mind. Nevertheless, the difficulties encountered did not prove to be insurmountable, although the burdens assumed by many individuals were, when viewed against peace-time practice, disproportionately heavy. Responsibilities were, however, accepted and discharged as contributions to the common war effort. Most valuable advice and assistance were given by the universities and technical colleges, as well as by the voluntary and local authority hospitals; and, by the mid-term of 1941, what was to all intents and purposes a new series of services had been established—in certain districts, such as those in the neighbourhood of Ballochmyle and Stracathro hospitals, for the first time in their medical history." It is noteworthy that two schools of pharmacy in Scotland acted as centres for the infusion fluid service set up by the Department of Health for the supply of fluids other than blood and plasma for intravenous use. That scheme operated in parallel with but independently of the Blood Transfusion Service. The school of pharmacy at the Technical College, Dundee, was the centre for the Eastern Region, and the school of pharmacy, Royal Technical College, Glasgow, for the Western.

THE SURGEON

One of seven "medical phisogs" from the "Gallery of Comicalities" (see *C. & D.*, 1953. II. 188).



*Reliever of mankind's distress
The surgeon plies his avocation;
His wits, as all men must confess,
Are constantly in OPERATION.
In Parliaments—a useful friend,
An active man he'd surely prove in;
Our CONSTITUTION he would mend—
All rotten MEMBERS by removing.*

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

CALOMEL IN CHILDREN'S POWDERS

SIR,—Referring to the inquests on the death of two children from pink disease at Stoke (C. & D., 1953, II, pp. 586 and 608), it would seem unreasonable to put the blame on calomel, as that substance has been the active ingredient of most children's powders (quite apart from Steedmans) for well over a century and this is the first time in my knowledge that it has been connected with a fatal result. We stress the word "connected," because in fact there is no conclusive proof that the administration of calomel is a cause of pink disease in children, and medical opinion is divided on the subject. It is, therefore, still only a theory. On the other hand there is no disputing that millions of calomel powders have been administered to children in the last 150 years with nothing but beneficial results. Also calomel has appeared in every pharmacopoeia from the London Pharmacopoeia of 1720 to the present B.P. Had it possessed the inherently dangerous qualities now alleged, they must surely have come to light before now. In the circumstances it would seem that incontestable proof and complete medical agreement are required before condemning such a long established and extensively prescribed medicine.

GURNEY A. HIGGINS
(ROUSE BROS. (LONDON), LTD.)

HOURS OF SERVICE

SIR,—The Pharmaceutical Society of Northern Ireland has taken the view that chemists who disregard local rota arrangements are unfit to remain on the register. As one of the many thousands of pharmacists who experienced the old working hours (9 till 8 except Saturdays, which were 9 till 9) I cannot help but support that attitude. My greatest appreciation of post-war pharmacy lies in the more reasonable hours which we are called upon to work, and I for one would welcome it if our own Council were to adopt a similar course to that of their Irish colleagues. I appreciate that neither our Council nor our members would countenance any form of victimisation, nor could any scheme of control be acceptable unless it were organised and adopted on thoroughly democratic lines.

May I, therefore, suggest that the problem should be tackled on a nation-wide scale? Every branch of the Society should have its hours-of-service committee, similar to those operating under the Executive Councils of the National Health Service but consisting of proprietor pharmacists, employee pharmacists and at least one representative of the Local Medical Committee. The hours of service framed by that branch committee would have to be submitted to the Council of the Society (or to a special sub-committee set up for the purpose) and, if and when approved, they would be official and obligatory for all chemists in the area. Any deliberate or persistent breach of the adopted hours would be reported to and investigated first by the local committee; if the committee should fail to bring the offender into line, the facts would be reported to the Council. A letter from the Statutory Committee would be enough to cure all except the determined renegade.

I hope that your readers will not conclude that we are experiencing any of this trouble in Walsall. We are fortunate in having an absolutely loyal body of members.

R. J. B. SHELLEY

TRADE UNIONS IN PHARMACY

SIR,—I have read with interest the letters which have appeared in your columns in recent weeks over the name of Mr. Armitage, secretary of the Registered Pharmacists' Union. In the course of his somewhat voluminous and, at times, highly coloured statements, he has thought fit, among other things, to attack the trade-union standing on the National Joint Industrial Council for Retail Pharmacy as "unrepresentative" and "not competent to deal with the principles of collective bargaining." The obvious inference which it is intended should be drawn by the uninformed from such statements is that the R.P.U. is representative and can remedy the shortcomings which are alleged by Mr. Armitage to exist. Since such an impression would

be woefully misleading, it is as well that the facts should be known of the extent to which Mr. Armitage is entitled to throw aspersions on the *bona fides* of other organisations. The R.P.U. is a registered trade union. Its progress (if that is the right word) is revealed by its membership record (available from the Registrar of Friendly Societies) since its formation in 1947. Those figures are as follows:—

1947	432
1948	220
1949	121
1950	113
1951	103
1952	91

(latest available)

The R.P.U. admits into membership not only employees but also employers and self-employed pharmacists. It can, therefore, reasonably be assumed that its employee membership will number less than ninety-one. It is understandable that, in the light of that record, Mr. Armitage will be desperately anxious to keep the R.P.U. ship afloat. But surely he should be the very last person to bandy statements about in a responsible journal attacking the standing of another organisation. He would have been better advised to remember the old proverb of "glass houses" before throwing stones at an organisation which, in contrast to the R.P.U., is undivided in its devotion to employee interests and which can point to a not inconsiderable record of performance on behalf of employee pharmacists which had its beginnings many years before the R.P.U. was thought of. My own union has provided, over the past twenty years, special machinery in the Association of Pharmaceutical Employees, through which its registered pharmacist members employed in multiple, co-operative and independent pharmacies have been responsible for many important changes to the benefit of employee pharmacists as a whole. It was primarily instrumental in the establishment of the Retail Pharmacy J.I.C. in England and Wales, and corresponding joint relationships with the Scottish Pharmaceutical Federation. The work done by the J.I.C. over the years has contributed materially to the conditions retail employee pharmacists enjoy today, as illustrated, for example, in the action that led to the Industrial Court Award of 1951 and the further improvements negotiated since. I have no fear that employee pharmacists will do other than treat the disruptive efforts of Mr. Armitage with the contempt they deserve. Certain it is that, in the light of the "standing" of the R.P.U. in pharmacy affairs as revealed above, no pharmacist need any longer be under any illusion as to the "authority" with which the R.P.U. can claim to speak.

J. D. HISCOCK, Assistant General Secretary,
UNION OF SHOP, DISTRIBUTIVE AND ALLIED WORKERS
ASSOCIATION OF PHARMACEUTICAL EMPLOYEES
MANCHESTER, 14

P.A.T.A. ELECTION

SIR,—I wish to thank those who voted for me, and also the others who voted, in the recent P.A.T.A. election.

CASTLEFORD

CHARLES S. CHALLINOR

PHARMACEUTICAL COUNCIL ELECTION

SIR,—Our branch is anxious to see and hear the candidates from whom they will have to make their choice when voting in the Council elections of the Pharmaceutical Society in May. It is appreciated that official notification of intention to stand is not required until the end of March, but we feel the month of April does not by itself give adequate opportunity for voters to "vet" the candidates. The regular low percentage poll may depend on the brevity of that period. Therefore we have, in our winter programme, reserved the evening of March 2 for providing a platform for all prospective candidates who are prepared to come and meet members of our own and neighbouring branches. Those concerned are asked to write to:

T. A. BARROW, J. C. S. PARSONS, Joint Secretaries
SLOUGH BRANCH OF THE PHARMACEUTICAL SOCIETY
7 BUCKINGHAM AVENUE EAST, SLOUGH, BUCKS

SHARE MOVEMENTS

October to December 1953

BY A FINANCIAL CORRESPONDENT

BUSINESS in drug trade company ordinary shares on the London Stock Exchange during the last quarter of 1953 continued to expand, in common with all other industrial sections, the majority of price movements being in favour of holders and once more of sufficient extent to establish new high record valuations. The few adverse labour developments such as strike threats and wage claims were without more than temporary effect.

A good feature was provided by Timothy Whites & Taylors 5s. ordinary which closed nearly 3s. higher at 23s. 7½d., their highest level since the beginning of 1953. A rise of about the same extent was also recorded by Yardley & Co. 4s. ordinary, which finished about 4s. better at 28s. 9d. after having been transferred at up to the new high level for 1953 of 29s. 3d. Elsewhere, firmness coupled with a regular turnover was evident for Reckitt & Sons £1 ordinary, which closed around 10s. higher at 99s. 4½d., after having been dealt in up to the new high level of 100s. 6d. in the meantime. Their gain during the past six months have thus totalled about 17s. and thereby have provided one of the best features of the entire industrial section.

Firmness was also displayed by Boots Pure Drug 5s. ordinary, which closed about 1s. higher at 23s. 6d.

against 20s. 3d. earlier in the year before a large block of shares which had been overhanging the market for some time had then been cleared. The recently announced successor to Lord Trent as chairman (Mr. J. P. Savage) intimated that turnover for the current financial year ending in March promised to be an all-time record.

Other Gains

Otherwise, Borax Consolidated £1 deferred closed about 2s. better at 37s. 4½d., after having been transferred at up to the new high-level of 40s. 6d. Albright & Wilson 5s. ordinary were to some extent similarly noteworthy as they closed around 1s. 6d. higher at 18s. 7½d.; the gain during the past six months totals 3s. 6d. Aspro 5s. ordinary were also a firm market as they finished about 3s. better at 25s. 3d., the new high record price of 26s. 1½d. being established in the meantime.

Firmness coupled with a fairly regular turnover was also evident for Glaxo Laboratories 10s. ordinary which finished about 1s. 6d. higher at 43s. 10½d., the new high record valuation of 47s. 10½d. being made in the meantime. Similar conditions were evident for Southalls (Birmingham) 5s. ordinary, which closed 1s. higher at 25s. after having touched the fresh high level of 28s. 6d.

Barclay & Sons £1 ordinary were unaltered at 30s. but the recorded turnover and volume of inquiry continued to be so small that it is doubtful whether that quotation can be regarded as tested or established. The British Drug Houses 5s. ordinary were more or less in the same class and were valued without quotable change at 8s. 6d., but with some business and inquiry reported. Of the minority of adverse moves which took place a feature was provided by Monsanto Chemicals 5s. ordinary which closed 2s. lower at 21s. 9d. The loss was more or less evenly spread over the current review period, and a fairly regular business was done.

In the preference share section, the trend of the previous three months was maintained in that final prices were nearly all unchanged or higher. A feature was supplied by Timothy Whites & Taylors 7½ per cent. which closed 1s. 6d. better at 29s. (a new high level). Taylors (Cash Chemists) Trust 6 per cent. were noteworthy in that they closed without quotable change at 23s. 1½d., thus maintaining their 2s. gain of the previous review period.

FIAT LIBER (HONEST JOE)

*T*HERE'S a movement arising
For anglicising
Prescriptions—Latin's not commended.
We, for our part,
Are of contrary heart,
And would like to see its use extended.
We made this clear
In another sphere
To a friend who thought the scheme a stunner,
He summoned his forces
And combed all the courses
For every classically minded Runner.
There was dignity,
He had to agree,
In the Latin betting-slip idea,
And how many P.C.'s
Could translate with ease
Duo solidi quoque via?

J.J.H.

NAME OF COMPANY £1 units unless otherwise stated	1953		LATEST
	HIGH	LOW	
Albright & Wilson, 5s. ...	18 7½	14 10½	18 7½
Allen & Hanburys, ord. ...	69 6	55 0	55 0
Do. 7% pref. ord. ...	24 3	22 7½	24 3
Amber Chemical Industries, 2s. ...	1 9	9	1 1½
Aspro, 5s. ...	26 1½	16 7½	25 3
Barclay & Sons ...	30 0	28 9	30 0
Beecham Group, 2s. 6d. defd. ...	14 1½	11 3	13 7½
Beecham MacLean Holdings 4% red. cum pref. ...	16 6	14 9	16 1½
Boots Pure Drug, 5s. ...	23 6	18 10½	23 6
Boots (Eastern) 6% cum. pref. A ...	24 0	22 4½	23 7½
Do. (Western) 7% A pref. ord. ...	26 9	24 3	26 6
Borax Consolidated defd. ...	40 6	32 0	37 4½
British Drug Houses, 5s. ...	12 0	7 9	8 6
Dubarry Perfumery, 1s. ...	1 10½	1 2	1 7½
Dufay, 2s. ...	1 4½	7	9¼
Evans Medical Supplies, 5s. ...	6 1½	3 10½	5 3
Gee, Arnold M., 1s. ...	2 7½	2 1½	2 5½
Glaxo Laboratories, 10s. ...	47 10½	34 0	43 10½
Do. 10s. 8% cum. pref. ord. ...	16 1½	13 4½	16 0
Greef Chemical Holdings, 5s. ...	17 1½	13 9	14 4½
Howards & Sons ...	20 9	15 6	15 6
Iford, 5s. ...	15 10½	12 4½	14 1½
Monsanto Chemicals, 5s. ...	24 4½	19 6	21 9
Reckitt & Sons ...	100 6	82 0	99 4½
Savory & Moore 5½% red. cum. pref. Smith & Nephew & Associated Companies, 4s. ...	19 6	17 7½	19 1½
Solidol Chemical, 2s. ...	21 10½	16 9	21 4½
Southalls (Birmingham), 5s. ...	11	3	6
Taylors (Cash Chemists) London, 6% cum. pref. ...	28 6	20 10½	25 0
Taylors (Cash Chemists) Trust 6% cum. pref. ...	22 3	19 3	22 0
Vitamins, 1s. ...	23 3	19 1½	23 1½
Whites (Timothy), & Taylors, 5s. ...	2 10½	1 8	2 1½
Do. 7½% cum. pref. ...	23 7½	13 3	23 7½
Wright, Layman & Umney ...	29 0	24 6	29 0
Yardley & Co., 4s. ...	26 3	19 0	20 3
Do. 4s. A ...	29 3	22 6	28 9
Do. 4½% second pref. ...	29 0	19 10½	27 3
	18 0	16 9	18 0

AMERICAN APPROVED REMEDIES

Preparations accepted by the American Medical Association's Council on Pharmacy and Chemistry for inclusion in its list of "New and Non-official Remedies":—

ANTIHEMOPHILIC PLASMA (HUMAN).—Sterile plasma prepared so as to prevent destruction of the relatively labile active fraction, by pooling plasma obtained by centrifuging whole blood from approximately twenty donors. After sterilisation by ultraviolet irradiation, the product is freeze dried under high vacuum. It is administered intravenously for the temporary reduction of the dysfunction of the haemostatic mechanism in haemophilia, as a solution. For children the dose that will maintain a normal clotting time of several hours to two days is 60 mls equivalent of citrated liquid plasma; for adults, twice that dose. Hyland Laboratories, Los Angeles, issue 50- and 100-ml bottles of dried preparation packaged with 50 mls and 100 mls of 0.1 per cent. citric acid diluent respectively.

ABSORBABLE GELATIN FILM.—Made by drying on plates at constant temperature and humidity a specially prepared gelatin-formaldehyde solution and sterilising it by dry heat at 146-49° C. for twelve hours. It is nonantigenic and does not produce undue inflammatory reaction. It may be stored indefinitely. The Upjohn Company, Kalamazoo, Michigan, issue Gelfilm in boxes of six films (100 mm. x 125 mm. x 0.16 mm.) in individual sterile envelopes.

ENZODASE LYOPHILIZED.—Brand of hyaluronidase issued by E. R. Squibb & Sons, Division of Mathieson Chemical Corporation, New York, in vials containing 150 or 1,500 turbidity-reducing units of powdered hyaluronidase preserved with 0.02 mgm. and 0.2 mgm. of thimerosal, respectively.

QUININE CARBACRYLIC RESIN.—The quinine salt of a polyacrylic carboxylic acid resin containing about 1.85 per cent. of quininium ion. Employed as an indicator for the detection of gastric anacidity (achlorhydria) without intubation. After oral administration of the drug, the quinine in the resin is displaced by the hydrogen ions of free hydrochloric acid in the stomach. Approximately 1 per cent. of the displaced quinine is excreted in the urine within two hours following administration of the resin and fluorometric assay of the urine for quinine provides an indication of the presence or absence of free hydrochloric acid in the stomach. Administered as a single test dose of 2 gm. in the form of granules. One hour previously 0.25 gm. of caffeine sodium benzoate is administered to stimulate gastric secretion. E. R. Squibb & Sons, Division of Mathieson Chemical Corporation, New York, issue packs comprising 2 gm. of the resin and 0.25 gm. of caffeine sodium benzoate in separate containers.

STILBAMIDINE ISETHIONATE.—4,4'-Stilbenedicarboxamidine di (β -hydroxyethanesulphonate). Exhibits chemotherapeutic properties useful in the treatment of certain protozoan and systemic fungal infections. Until more conclusive evidence becomes available, use of the drug should be restricted to the treatment of early African trypanosomiasis (except in cases with significant spinal fluid changes) and kala-azar (except in mild leishmanial infections responsive to pentavalent antimony), especially when antimony therapy is contraindicated because of intercurrent tuberculosis, systemic actinomycosis, and generalised North American blastomycosis. It is not effective in the treatment of torula infections. Administered intravenously by continuous slow drip. A freshly prepared solution of the dose to be used, dissolved in about 200 mls of either 5 per cent. dextrose in water for injection or isotonic sodium chloride solution, is infused over a period of two hours. Wm. S. Merrell Co., Cincinnati, issue the drug in powder in 150-mgm. ampoules.

TABLETS PASMED SODIUM.—Proprietary 0.5 gm. tablets of sodium PAS issued by Inter-medico Corporation, Floral Park, Long Island, New York.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

DI-iodohydroxyquinoline

BRAND NAME: **DIODOQUIN***

MANUFACTURER OF BRAND: G. D. Searle & Co., Ltd., 17 Manchester Street, London, W.1.

INDICATIONS: Amoebiasis, trichomoniasis hominis.

DOSAGE: Three tablets (see below) daily for twenty days; if necessary a second course of treatment may be given.

HOW SUPPLIED: In packs of fifteen, sixty and 500 tablets each containing 650 mgm.

FIRST ISSUED: September 1953 (in United Kingdom).

*Cross reference for card index:

DIODOQUIN: see di-iodohydroxyquinoline.

FLORAQUIN

MANUFACTURER: G. D. Searle & Co., Ltd., 17 Manchester Street, London, W.1.

DESCRIPTION: Vaginal tablets each containing 5:7-di-iodohydroxyquinoline (Diodoquin), 100 mgm., with lactose, anhydrous dextrose and boric acid.

INDICATIONS: Trichomonas vaginalis, senile and mycotic vaginitis, non-specific leucorrhoea, vaginal pruritis; as post-operative deodorant.

USE: Cleanse vagina, then insert several moistened tablets into the posterior and anterior fornices at weekly or bi-weekly intervals. In the interim the patient inserts one or two tablets night and morning.

HOW SUPPLIED: In container of twenty-four.

FIRST ISSUED: September 1953 (in United Kingdom).

NOTES: Floraquin is also supplied as a powder, in 1-oz. bottle.

MERCLORAN

MANUFACTURER: Parke, Davis & Co., Ltd., Hounslow, Middlesex.

DESCRIPTION AND FORMULA: An oral mercurial diuretic presented in tablets each containing 18.3 mgm. of 3-chloromercuri-2-methoxy-propylurea (chlormerodrin, N.N.R.) equivalent to 10 mgm. of mercury.

INDICATIONS: Treatment of oedema in congestive heart failure and in other conditions in which a mercurial diuretic is indicated.

DOSAGE: *Adults*, One to four tablets daily with intervals between doses. The daily dosage may be increased to six tablets, depending on the severity of oedema or circulatory failure. *Children*, Doses proportional to body weight.

HOW PACKED: In bottles of twenty-five and 250 tablets.

FIRST ISSUED: October 29, 1953.

REFERENCES: Finch, *Journal of the Iowa State Medical Association*, 1952, 490. Greiner and Gold, *Journal of the American Medical Association*, 1953, 152, 1130. Leff and Nussbaum, *Journal of the New Jersey Medical Association*, 1953, 50, 149.

MERCARDAN

MANUFACTURER: Parke, Davis & Co., Ltd., Hounslow, Middlesex.

DESCRIPTION AND FORMULA: A parenteral mercurial diuretic each c.c. of which represents meralluride sodium (sodium methoxyoxymercuri-propyl-succinyl urea with theophylline) equivalent to 39 mgm. of organically combined mercury with 48 mgm. of theophylline.

INDICATIONS: Treatment of oedema in congestive cardiac failure and other conditions in which a mercurial diuretic is indicated.

DOSAGE: *Adults*, From 1 to 2 c.c., depending on the condition of the patient and the route and frequency of administration. An initial dose of 0.5 c.c. or less is recommended in order to ascertain the response of the patient and to detect occasional idiosyncrasy. *Children*, Doses proportional to body weight.

HOW PACKED: In 1-c.c. and 2-c.c. ampoules and 10-c.c. rubber-capped vials.

FIRST ISSUED: October 29, 1953.

REFERENCES: Gold and others, *American Journal of Medicine*, 1947, 3, 665. Gelfand, *New York State Journal of Medicine*, 1952, 52, 555. Warshaw and others, *Journal of the American Medical Association*, 1951, 145, 1049.

CE-COBALIN SYRUP

MANUFACTURER: Paines & Byrne, Ltd., Greenford, Middlesex.

DESCRIPTION AND FORMULA: A raspberry flavoured syrup each fluid ounce of which contains 160 microgm. cyanocobalamin with 56 mgm. ascorbic acid.

INDICATIONS: Convalescence states in children and adults.

DOSAGE: Two to four teaspoonfuls daily.

HOW SUPPLIED: In 4-oz. bottle.

FIRST ISSUED: December 1953.

DIMENHYDRINATE

BRAND NAME: **DRAMAMINE***

MANUFACTURER OF BRAND: G. D. Searle & Co., Ltd., 17 Manchester Street, London, W.1.

DESCRIPTION: (β')Dimethylaminoethyl benzohydril ether 8-chlorotheophyllinate, an antihistaminic.

INDICATIONS: Travel sickness; vertigo; nausea and vomiting associated with anaesthesia, electro-convulsive therapy, and the use of certain antibiotics; nausea and vomiting of pregnancy.

DOSAGE: Orally or rectally—Adults: 50 mgm. every four hours. Children: five to eight years, 12.5 to 25 mgm.; eight to twelve years 25 to 50 mgm.; over twelve years, 50 to 100 mgm., two or three times daily. Parenterally, slightly smaller doses are effective, preferably by intramuscular injection.

HOW SUPPLIED: In packs of twelve, thirty-six, 100 and 1,000 tablets each containing 50 mgm.

FIRST ISSUED: September 1953 (in United Kingdom).

NOTES: Drowsiness may occur in some patients, especially in higher doses.

*Cross reference for card index:

DRAMAMINE: see Dimenhydrinate.

RAUWILOID + VERILOID

MANUFACTURER: Riker Laboratories, Ltd., 29 Kirkwhite Street, Nottingham.

DESCRIPTION AND FORMULA: Tablets, each containing Rauwiloid brand alkaloids of *Rauwolfia serpentina*, 1 mgm., and Veriloid brand alkaloids of *Veratrum viride*, 3 mgm.

INDICATIONS: Moderate and severe hypertension.

DOSAGE: Average: One tablet three times a day at intervals of not less than four hours, preferably after meals. The dosage is subsequently adjusted to individual needs.

HOW PACKED: In bottles of 100 and 500 tablets.

FIRST ISSUED: November 1953.

REFERENCES: Kauntze and Irounce, *Lancet*, 1951, **260**, 549., and *ibid.*, **261**, 1002; Kauntze, *Proc. Royal Soc. Med.*, 1952, **45**, 276; and see entries under Rauwiloid.

PROPANTHELIN BROMIDE

BRAND NAME (of methobromide): **PRO-BANTHINE BROMIDE***

MANUFACTURER OF BRAND: G. D. Searle & Co., Ltd., 17 Manchester Street, London, W.1.

DESCRIPTION: (2')Diisopropylaminoethyl xanthen-9-carboxylate methobromide, an anticholinergic.

INDICATIONS: Peptic ulcer, gastric fistula, chronic hypertrophic gastritis, etc.; ureteral and urinary bladder spasm; hyperhidrosis.

DOSAGE: *Stress conditions*: One tablet with meals and two at bedtime, with subsequent maintenance dosage of one tablet two or three times daily. *Other conditions*: One tablet four times daily. Serious conditions require higher doses.

HOW SUPPLIED: In packs of forty, 100 and 1,000 tablets each containing 15 mgm. of Pro-Banthine.

FIRST ISSUED: September 1953 (in United Kingdom).

NOTES: The preparation is also known as SC 3171.

*Cross reference for card index:

PRO-BANTHINE: see Propantheline bromide.

NEW GERMAN PROPRIETARIES

Information from German pharmaceutical periodicals about recently introduced proprietary medicinal specialties:—

A.M.49.—A combined pack comprising A.M.49-I (black tablets each containing gold tetrabromide and tribromide, 0.008 gm. of each; potassium iodide, 0.17 gm., with magnesium silicate, yeast and excipient); and A.M.49-2 (yellow tablets each containing calcium allyl arsinat, 0.0007 gm.; quinine bisulphate, 0.01 gm., with yeast and excipient). For administration in bronchial asthma. Rhein-Chemie, Heidelberg (*Pharm. Ztg.*, October 5, 1953).

AGNOLYT.—A fraction of the active principles of *Vitex agnus castus*, L. in alcoholic solution "for the autonomous regulation of hormone production in hypermenorrhoea, polymenorrhoea, etc." Dr. Madaus & Co., Cologne (*Pharm. Ztg.*, October 5, 1953).

BIOAL.—Standardised total active principles of *Corydalis cava*, *Genoranthus ruber*, *Valeriana officinalis*, *Passiflora incarnata* and *Avena sativa*. In tablets for administration in psychic disturbances. Dr. Madaus & Co., Cologne (*Pharm. Ztg.*, October 5, 1953).

CERTOSÉD LANATA.—A tincture containing equal parts Certosed and *Digitalis lanata*. Sagitta-Werk, G.m.b.H., München 15 *Deutsche Apothekerztg.*, September 24).

FOVYSAT BURGER.—A preparation of crataegus fruit, mistletoe and ginger with 0.01 gm. per c.c. of ephedrine hydrochloride. For administration in hypotension, etc. Johannes Bürger, Ysatabrik, G.m.b.H., Goslar, Harz (*Pharm. Ztg.*, October 5, 1953).

GENTISAN.—A compound of 2:5-dihydroxybenzoic acid (gentisic acid). In tablets for administration in arthritic conditions, feverish catarrhal infections, etc. Dr. R. Funck, Remagen, Rheinland (*Pharm. Ztg.*, October 5, 1953).

NEURODYSTONK.—Sugar-coated tablets containing phenylethyl barbituric acid, papaverine, benzyl benzoate, extract of belladonna, extract of *Secalis cornuta*, milfoil, lupulin and dieneestrol (0.5 mgm. per dose). For administration in menopausal troubles and ovarian deficiency. Dr. Heinrich Heinz Chem. Pharm. Präparate, Flörheim-am-Main (*Pharm. Ztg.*, October 5, 1953).

PROGYNON-DEPOT.—Valerianic-acid esters of the natural follicular hormone dissolved in ethyl oleate. In 1-c.c. ampoules each containing 10 mgm. active substance. Schering, A.G., West Berlin (*Pharm. Ztg.*, October 5, 1953).

TERRAMYCIN OINTMENTS.—14-gm. tube of an ointment containing terramycin hydrochloride, 30 mgm., and polymyxin B sulphate, 10,000 units. 4-gm. tube of an eye ointment containing terramycin hydrochloride, 10 mgm., and polymyxin B sulphate, 10,000 units. H. C. H. Boehringer & Sohn, Ingelheim-am-Rhein (*Pharm. Ztg.*, October 5, 1953).

THEAL.—A water-soluble compound of theophylline: di-oxypropyltheophylline. In 2-c.c. ampoules each containing 0.25 gm. H. C. F. Boehringer & Sohn, G.m.b.H., Mannheim (*Pharm. Ztg.*, October 5, 1953).

PRINT AND PUBLICITY**Advertising Campaigns**

THE CROOKES LABORATORIES, LTD., Park Royal, London, N.W.10: Crookes halibut oil. In national Press, on Radio Luxembourg, and in colour filmlets.

FERRIS & CO., LTD., 31 Portland Square, Bristol: Nigroids. In national Press.

STEMCO, LTD., 128 Albert Street, London, N.W.1: Flit products. In national, provincial, and magazine Press.

Medical Propaganda

BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8: "Oblivon" (card); "Neutradora" (card); "The History of Oblivon" (4-p. leaflet).

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JANUARY 6: With many houses stocktaking and consumers unwilling to increase their commitments at present, trading in all markets was extremely dull, particularly on home account, during the week.

In PHARMACEUTICAL CHEMICALS, BROMIDES were increased on January 6, the AMMONIUM salt being threepence per lb. dearer while the SODIUM and POTASSIUM salts were increased by twopenny half-penny. The increases are due to higher bromine costs.

In CRUDE DRUGS there were few interesting price developments. Many commodities are now scarce on the spot and no improvement can be expected before the new crops are ready. GUM ACACIA was firmer by 5s. per cwt. for Kordofan cleaned sorts on the spot. The various PEPPERS were neglected and most values fell slightly. CINNAMON BARK for shipment was quoted at 3s. 5d., c.i.f., for the OOOO variety against 3s. 3½d. a week ago. MENTHOL (Chinese) was sold at 31s. per lb., duty paid. A cyclone damaged plantations at Vohemar and Majunga in Madagascar on December 30, 1953. The extent of the damage is not yet known. African GINGER was firm on the spot and dearer for shipment.

Among ESSENTIAL OILS, CASSIA was sixpence per lb. lower for shipment with spot quotations reacting in sympathy. CITRONELLA was quiet with Ceylon unchanged in price on the spot but shipment offers of Java and Formosa were down by twopenny and fivepence per lb. respectively. Bourbon GERANIUM and LEMONGRASS were firmer but CORIANDER and Chinese PEPPERMINT were weaker on the spot.

Alcohol Reduced

The manufacturers of ETHYL ALCOHOL and METHYLATED SPIRITS have announced changes in their price schedules from January 1. A reduction of twopenny per proof gallon has been made on all sizes of delivery of ethyl alcohol, 95 per cent. (66.0 o.p.). The basic schedule for tank wagon deliveries of this grade now ranges from 2s. 11½d. per proof gallon for totals of 2,500-9,999 proof gallons per annum, to 2s. 9d. for totals over 300,000. The price of absolute alcohol, re-rectified 99.7 per cent. (75 o.p.) remains at 12s. 6d. per bulk gall. The effective reduction on all other grades of plain British spirit is one penny per proof gallon, as the makers have found it necessary to increase by one penny the premiums above basic schedule price for those grades. The premiums of one penny and threepence per proof gall. for deliveries of 40-gall. drums and in 10-gall. containers respectively remain unchanged.

The new prices for industrial methylated spirit, B.P., range from 4s. 10d. for tank wagon deliveries (minimum 500 gall.) to 5s. 5½d. per gall. for 30 gall. Former prices of smaller lots are not altered. Similar changes have been made in mineralised methylated spirits, the full schedule of which is given on this page.

UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, JANUARY 5: There were no important changes in PHARMACEUTICAL CHEMICALS but in the BOTANICAL DRUG section Dutch CARAWAY SEED at 11 cents was up a quarter of a cent. Among ESSENTIAL OILS, GINGER at \$10.85 per lb. was down 15 cents; CHENOPODIUM at \$4.50 (down 25 cents); and Haitian VETIVERT, \$12.75 (down 75 cents).

Pharmaceutical Chemicals

ADRENALINE. — Minimum rates for B.P. are from 1s. 3d. per gm. and ACID TARTRATE, B.P. 1953, from 8½d.

AMIDOPYRIN. — In 1-cwt. lots the price is 29s. per lb.

AMMONIUM CARBONATE. — B.P. lump is £73 5s. per ton; POWDER, £76 5s. BICARBONATE is £48 15s. per ton; all delivered free United Kingdom in non-returnable packages.

AMYLOBARBITONE. — B.P.C. is 65s. per lb. for 1-cwt. lots and SODIUM, B.P.C., 70s. per lb.

BENZYL BENZOATE. — Makers' offers of B.P. grade range from 4s. per lb. for 1-ton lots to 6s. 9d. for smallest quantities.

BROMIDES. — Dearer. Potassium B.P., crystals in 5-cwt. lots is 2s. 10½d. per lb.; 1-cwt., 2s. 11½d. per lb. Powder is 1½d. per lb. more. AMMONIUM is 3s. per lb. in 5-cwt. lots and SODIUM, 2s. 9½d. per lb.

BRUCINE. — ALKALOID is from 1s. 8d. to 1s. 9½d. per oz. and NITRATE and SULPHATE from 1s. 7d. to 1s. 8½d. per oz., as to quantity.

CHLORAL HYDRATE. — In 1-cwt. lots the price is from 3s. 10d. per lb. as to holder.

CHLORRUTOL. — 28-lb. lots are at the rate of 10s. per lb.

OPIATES. — Home trade rates for 4-oz. up to 7-oz. lots including container (non-returnable) are as follows: — CODEINE. — alkaloid, hydrobromide, iodide, 58s. 6d. per oz. (2.063s. per kilo); hydrochloride, sulphate, 51s. 3d. (1.808s.); phosphate, 44s. 9d. (1.578s.). DIAMORPHINE. — Alkaloid, 60s. 3d. per oz. (2.125s. per kilo); hydrochloride, 54s. 9d. (1.931s.). ETHYLMORPHINE. — Alkaloid, 63s. per oz. (2.222s. per kilo); hydrochloride, 53s. 9d. (1.896s.). MORPHINE. — Alkaloid, bimeconate, tartrate, 60s. 6d. per oz. (2.134s. per kilo); acetate, hydrochloride, sulphate, hydrobromide 50s. 3d. (1.773s.).

PAPAVERINE. — Synthetic HYDROCHLORIDE is offered at 330s. per kilo, and ALKALOID at 420s.

PARALDEHYDE. — Carboy lots of pharmaceutical grade are 1s. 10½d. per lb.

ROCHELLE SALT. — Rates (per cwt.) for powder or granulated material are as follows: In 5-cwt. lots or over, 180s. per cwt.; 1-cwt., 182s. 6d. SEIDLITZ POWDER, ordinary strength is 144s. per cwt. in 1-cwt. lots; smalls, from 1s. 9½d. to 2s. 0½d. per lb. Extra-strong is 155s. per cwt., and from 1s. 10½d. to 2s. 1½d. per lb. for small quantities. Double-strength is 161s. per cwt.; smalls, 1s. 11½d. to 2s. 2½d. per lb.

SODIUM ACETATE. — B.P.C. powder in 28-lb. lots is 1s. 9d. per lb.

SODIUM CHLORIDE. — Re-crystallised is 20s. per cwt.

SODIUM PERBORATE. — Prices (per cwt.) are 142s. 9d. in 1-cwt. kegs; 135s. 3d. in 1-cwt. bags for B.P.C. (minimum 10 per cent. available oxygen). Other strengths pro rata. The PERBORATE MONOHYDRATE testing 15 per cent. available oxygen is 305s. 3d. per cwt.

SULPHANILAMIDE. — Rates per lb. are now, 5-cwt. lots, 8s. 6d.; 1-cwt., 8s. 8d.

THEOBROMINE. — Alkaloid is about 18s. per lb. for 1-cwt. lots and the sodium salicylate, 13s.

ZINC SULPHATE. — B.P. in 1-cwt. lots is quoted at 1s. 2d. per lb.; 28-lb., 1s. 5d.

Alcohol

Prices of plain BRITISH SPIRIT per proof gal. are as follows: —

Ethyl Alcohol: (95 per cent. Gay Lussac, 66 o.p.); where the number of proof gall. taken over any one year ended December 31 is 300,000 or over the price is 2s. 9d.; 200,000 and less than 300,000, 2s. 9½d.; 100,000 and less than 200,000, 2s. 10d.; 50,000 and less than 100,000, 2s. 10½d.; 10,000 and less than 50,000, 2s. 11d.; 2,500 and less than 10,000, 2s. 11½d. Prices are exclusive of duty and are for tank wagon lots.

The following grades are subject to a premium on the above prices as follows: —

Absolute Alcohol, 99.5 per cent., 74.5 o.p., 3d. more per proof gall.; the special high strength (99.9 per cent., 75.2 o.p.), 5d. more; *Doubly Rectified Alcohol* (S.V.R.), 95.8 per cent., 68 o.p. is 4d. more and *P.I. Rectified Alcohol*, 96.1 per cent., 68.5 o.p., 8d. more. *R.R. Absolute Alcohol* (re-rectified, 99.7 per cent., 75 o.p.), 12s. 6d. per bulk gall. net.

Methylated Spirits

METHYLATORS' rates per gall. in Great Britain were reduced on January 1 as follows: —

Industrial methylated spirit: Strength 61 o.p., 500 gall. and over in one delivery, 4s. 9½d.; 100 gall. and under 500 gall., 5s. 0½d.; 30 gall. and under 100 gall., 5s. 3½d.; 10 gall. and under 30 gall., 5s. 6½d.; 5 gall. and under 10 gall., 5s. 9½d. Strength 64 o.p., 1d. per gall., 66 o.p. (B.P.), 2d.; 68 o.p., 2½d. more than the above rates with 74 o.p. from 4½d. to 9d. more according to quantity. Tank wagon delivery is 1½d. per gall. off list price: — minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 5s. 4d. for 500 gall. to 6s. 2½d. for 5-10 gall. of 61 o.p.

Pyridinised industrial methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 5s. 0½d.; 100 gall. and under 500 gall., 5s. 3½d.; 30 gall. and under 100 gall., 5s. 6½d.; 10 gall. and under 30 gall., 5s. 9½d.; 5 gall. and under 10 gall., 6s. 0½d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Mineralised methylated spirit: Strength 61 o.p. in one delivery, 100 gall. and under 500 gall., 5s. 5d.; 30 gall. and under 100 gall., 5s. 8d.; 10 gall. and under 30 gall., 5s. 11d.; 5 gall. and under 10 gall., 6s. 2d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Methylated resin finish is 3d. per gall. over, and *methylated shellac finish*, 1s. per gall. over the prices for pyridinised methylated spirit.

TERMS: — Delivered free and carriage paid on returned empties; net cash one month.

Crude Drugs

ACONITE. — Spanish napellus is 3s. 2d. per lb., duty paid, ex wharf.

AGAR.—Kobé No. 1 on the spot is from 15s. 3d. to 15s. 6d. per lb. as to quality. Forward, 12s. 6d., c.i.f., quoted for January-February shipment of new crop.

ALOE.—Prime Cape supplies are short on the spot. Shipment, 156s., c.i.f., nominal. Curaçao is offered at 330s. on the spot and 260s., c.i.f., for shipment.

BALSAMS.—Quotations (per lb.) are:—Canada: According to holder from 21s. to 22s. 6d., spot. *Copaiba*: Soluble Para, spot, 12s. 6d. *Peru*, 8s. 9d. in bond. *Tolu* (genuine as imported), now 19s. 6d., spot, and 19s., c.i.f.

BELLADONNA.—A parcel of Jugo-Slavian root testing 0.44 per cent. is offered at 1s. 9d. per lb. on the spot, duty paid; LEAVES are from 3s. per lb., as to test.

CAMPHOR. — Chinese (B.P.) powder remains scarce on the spot. Prices of $\frac{1}{4}$ -oz. tablets are 5s. 3d. per lb.; $2\frac{1}{2}$ -lb. slabs, 4s. 9d. per lb., duty paid. Synthetic powder is firm at 3s. 7d. per lb. for 100-lb. lots.

CARDAMOMS.—Firm. Aleppy greens on the spot are cleared; shipment offers, 13s., c.i.f.

ELEMI.—Offers are from 1s. 9d. per lb. on the spot.

ERGOT.—Weak. Portuguese for prompt shipment is 14s. per lb., c.i.f., with spot value around 16s.

GALANGAL. — Spot material is about 90s. per cwt., with forward offers of 80s., c.i.f.

GENTIAN. — French natural on spot is 100s. per cwt., and from 92s. 6d. to 95s., c.i.f.; sliced, 115s., spot.

GINGER.—African on the spot, f.a.q., 90s. per cwt. and for shipment, 85s., c.i.f. quoted. Jamaican No. 3 is also firm at 115s. on the spot. New-crop for January-March shipment, 115s., c.i.f.

GUAIACUM RESIN.—Quotations are from 2s. 9d. to 3s. per lb. for spot material.

GUM ACACIA. — Kordofan cleaned sorts on the spot are quoted at 110s. per cwt. with shipment, 97s. 6d. to 98s., c.i.f., as to position.

HENNA. — Indian green leaves are at 90s. per cwt. on the spot and 65s., c.i.f., January-February shipment; brown leaves, 65s., spot. Sudanese are 100s. spot.

HONEY.—Australian light-amber is firm on the spot at 100s. to 110s. per cwt.; medium-amber, 90s. to 95s. Argentine is from 115s. to 120s. Jamaican unchanged at 120s. to 130s. All ex warehouse terms.

HYDRASTIS.—Root is 18s. per lb., on the spot.

IPECACUANHA.—Nicaraguan for January shipment is about 49s. per lb., c.i.f.; Colombian, 48s. 6d., c.i.f. Spot: Matto Grosso, 46s.; Colombian, 51s.; Nicaraguan, 55s., scarce.

KARAYA.—No. 1 gum on the spot is quoted at 200s. per cwt.; No. 2 is 140s.

KOLA NUTS.—African halves are available on the spot at $4\frac{3}{4}$ d. per lb., 4d., c.i.f., for shipment.

LIQUORICE.—Natural whole root, spot; Anatolian, 60s. per cwt.; Russian, 40s.; Syrian, 37s. 6d. Block juice quotations are 195s. per cwt., delivered. Turkish stick is 240s. and Italian stick, 475s. per cwt., both duty paid.

MENTHOL. — Spot, Chinese is about 31s. per lb., duty paid, and for shipment, 27s., c.i.f.

NUTMEGS. — West Indian 80's quoted at 2s. 9d. per lb. on the spot and 2s. $5\frac{1}{4}$ d., c.i.f., for shipment.

ORANGE PEEL.—Thin-cut is 2s. 2d. per lb., duty paid.

ORRIS ROOT.—Offers of Florentine good

sorts are 180s. per cwt.

PEPPER.—Quiet. White Sarawak, 6s. 5d. per lb. paid and from 6s. 3d. to 6s. 4d., c.i.f., quoted for shipment as to position. Black Sarawak, is 6s. per lb., spot and 5s. 9d., c.i.f. Black Malabar is 820s. per cwt. spot and 750s., c.i.f. for afloat.

QUASSIA. — February-March shipment offers are 31s. per cwt., c.i.f.

QUILLAIA.—Supplies of whole bark are cleared on the spot. Cut is 160s. per cwt.

RAUWOLFIA (SERPENTINA). — Offers for prompt shipment are at 4s. 6d., c.i.f.

RHUBARB.—Chinese of reasonably good quality is scarce on the spot and no offers from origin.

SEEDS.—ANISE.—Cyprian only offering on spot at 170s. per cwt. CARAWAY.—Dutch unchanged at 94s. per cwt., duty paid. CELERY. — Indian remains steady at 1s. $10\frac{1}{2}$ d. per lb., spot London. CORIANDER.—Steady on the spot with the shipment price dealer in Morocco. Spot: Moroccan is 55s. per cwt., duty paid (51s. 6d. in bond); English, 75s. Shipment: quotations vary from 45s. to 50s. per cwt., c.i.f. CUMIN.—Quiet. Spot, Cyprian 130s. per cwt.; Moroccan, 127s. 6d., duty paid; Maltese, 117s. 6d. DILL.—Indian unchanged at 85s. per cwt. spot London. FENNEL.—Indian offered at 127s. 6d. per cwt., spot, with no business reported. FENUGREEK.—Firm. Moroccan quoted at 50s. per cwt., duty paid, 40s., c.i.f. MUSTARD.—English 70s. to 85s. per cwt., according to quality.

SENNA.—*Timmevely* LEAVES: number 1 on the spot, $11\frac{1}{4}$ d. per lb.; number 2, 10d., and number 3, 8d. PODS, f.a.q., are about 9d. per lb. on the spot and $5\frac{1}{4}$ d., c.i.f. January-February shipment. Hand-picked range from 1s. 6d. per lb. ex wharf. *Alexandrian* PODS, manufacturing, 1s. 8d. to 2s. 3d.; medium hand-picked, 3s. to 3s. 9d.

SLIPPERY ELM BARK.—Spot material has been cleared.

SQUILL.—Italian white on the spot is 70s. per cwt. nominal with replacements difficult. No. 2 is about 60s., spot.

STRAMONIUM.—Indian LEAVES are $5\frac{1}{4}$ d. per lb., spot and European, 97s. 6d. per cwt.

STROPHANTHUS.—*Kombé*, 100 per cent. is about 11s. per lb., on the spot, and *Gratus*, 17s. 6d.

STYRAX.—Spot is 5s. 9d. per lb., duty paid.

TAMARINDS.—Quiet. Madras for shipment (1 per cent. stones), 67s. 6d., c.i.f.; (5 per cent.), 65s., c.i.f.

TRAGACANTH.—No. 1 ribbon on the spot is £105 per cwt.; No. 2, £85; No. 3, £65.

TURMERIC.—Unchanged. Rajapore, 125s. per cwt., paid for spot; Madras finger, 130s. New crop for March-April shipment is 85s., c.i.f.

UVA URSI.—Spot offers are about 85s. per cwt.

VALERIAN.—Indian is 145s. per cwt. on the spot and from 130s. to 145s., c.i.f. Belgian, 185s., spot.

VANILLIN. — Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

WAXES. — BEES. — Dar-es-Salaam spot, 420s. per cwt., January-February shipment, 415s., c.i.f. Sudanese and Abyssinian, 370s., c.i.f.; spot, 415s., duty paid; Benguella, 385s., c.i.f., and 420s., duty paid. CANDELILLA.—Spot is unchanged at 635s. per cwt. CARNAUBA.—Prime yellow on the spot is 1,100s. per cwt.; shipment, 1,000s., c.i.f.; fatty grey is 740s. on the spot; shipment, 705s., c.i.f. OURICURI.—Spot 0.5 per cent. impurities, 705s. per cwt. SPERMACETI.—Case lots are about 1s. 9d. per lb.

WITCH HAZEL.—Leaves on the spot are about 1s. 9d. per lb.

Essential and Expressed Oils

ALMOND.—B.P. is from 6s. to 7s. 6d. per lb., as to quantity.

AMBER.—Rectified on the spot is quoted at from 1s. 6d. per lb.

ANISE.—Firm. Spot supplies are about 7s. 9d. per lb.; forward 7s. 9d., c.i.f., second-hand sellers; origin 8s. 3d., c.i.f.

BAY.—W. Indian is 8s. 6d. to 9s. per lb. on the spot.

BERGAMOT.—Spot value is about 82s. 6d. per lb.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

CARAWAY. — English-distilled is offered at 45s.; imported oils are from 21s. per lb. for spot.

CARDAMOM.—Price per lb. is from 310s. for English-distilled and 230s. for imported.

CASSIA. — Easier. Original drums are about 11s. per lb. for spot and 9s. 6d., c.i.f.

CITRONELLA. — Quiet. Prices (per lb.) are:—Ceylon, spot, 3s. 9d. per lb.; Java, 6s. 3d., duty paid; shipment, 5s. 7d., c.i.f.; Formosa, 5s. 4d., c.i.f.

CLOVE. — Madagascar leaf is firm at 12s. per lb., duty paid, and 10s., c.i.f., for shipment. Redistilled stem oil from 17s. 6d.

CORIANDER. — Russian-seed oil is 140s. per lb., and Dutch, 120s.

GERANIUM.—Bourbon is 82s. 6d. per lb. on the spot. Shipment, 79s., c.i.f.

LAVANDIN. — Spot values are from 13s. 9d. per lb.

LAVENDER. — French, 40-42 per cent. linalol on the spot is from 33s. per lb.

LEMONGRASS. — Firm. East Indian is 8s. $1\frac{1}{4}$ d. per lb. on the spot and 8s., c.i.f. for prompt shipment.

NUTMEG. — English-distilled oil is from 42s. 6d. to 44s. per lb. Imported oil is offered at 24s. per lb., duty paid for drum lots.

ORANGE.—Spot offers for sweet vary as to quality and quantity. West African is 11s.; Jamaican, 9s. 3d.; Palestinian, 10s., per lb.

OTTO OF ROSE.—Anatolian is offered on the spot at 300s. per oz., and Bulgarian, 480s. ex warehouse.

PALMAROSA. — East Indian is from 40s. per lb., on the spot, and 37s., c.i.f. for prompt shipment. Formosan, 27s. 6d., spot.

PEPPERMINT. — *Arvensis*: Chinese is about 20s. per lb., spot and 18s., c.i.f., January-February shipment: Brazilian (45 per cent.), 14s. 3d. spot; forward, 13s. 6d., c.i.f. Italian "Mitcham" type oil is 52s. 6d. per lb., for best quality on the spot.

PETITGRAIN. — Paraguay on the spot is 18s. per lb., and for January shipment is 16s. $10\frac{1}{4}$ d., c.i.f.

PIMENTO. — English-distilled berry is nominal with imported at 55s. Rectified leaf (imported), 25s.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 9s. Siberian (*abietis*), 9s. 6d.

ROSEMARY. — Spanish oil on the spot is about 5s. 9d. per lb., duty paid, for B.P. quality.

RUE.—Spot offers are from 12s. 6d. per lb.

SAGE.—Spanish is offered at from 9s. 6d. per lb., spot.

SANDALWOOD.—Mysore is 70s. per lb. for 7 x 25-lb. tins.

SPEARMINT.—Offers of B.P.C. quality are from 57s. 6d. per lb.

THYME.—B.P.C. is about 9s. 6d. per lb.

VETIVERT. — Bourbon in original drums on the spot is about 110s. per lb.

LONDON'S HEALTH IN 1952

Medical Officers' Report

THE fog period of December 1952 contributed an estimated 0.5 to 1.0 per thousand to the year's general death rate of 12.0 per thousand (a figure somewhat lower than that of the previous year) states the report of the County Medical Officer of Health and School Medical Officer for 1952 published recently by the London County Council.

The death rate for the bronchitic and heart disease group was 4.64 compared with 5.01 in 1951. Cancer was the second leading cause of death and showed a slight increase with a rate of 2.3.

The number of confirmed notifications of poliomyelitis, 309, was higher than in 1951 (112), but lower than for the epidemic years 1947, 1949 and 1950. Of the total notifications during 1952, 204 were paralytic and 105 non-paralytic. An analysis of the 1949 epidemic in its relation to previous inoculation is given in an appendix to the Report. It shows that in the conditions pertaining during the whole of 1949 there was nearly four times the normal risk of poliomyelitis in the three months following inoculation with the combined diphtheria and pertussis vaccine. Injections with diphtheria (A.P.T.) antigen involved a smaller increased risk. Discontinuing the combined vaccine during September 1949 was therefore justified. Newer combined prophylactics may not be subject to the same risks.

On the subject of diphtheria immunisation the report notes a continued drop in the estimated percentage (now 50.2) of children under five years of age who have been immunised. Efforts are being made to increase the percentage. But public alarm about the danger of paralysis following inoculations causes great difficulty both in the maintenance of a continuous propaganda campaign and in explaining to parents the necessity for postponing immunisation during the season when poliomyelitis is most likely to occur. 4,713 formal primary notifications of pulmonary tuberculosis and 518 of non-pulmonary tuberculosis were made in 1952. Figures for 1951 were 4,897 and 507 respectively.

Under the rheumatism scheme, the number of admissions to the acute unit at Queen Mary's Hospital for Children, Carshalton, have become more stabilised.

Infectious diseases during 1952 included 1,704 notifications of dysentery (a figure exceeded only in 1945 and 1951 (there was a record number of 4,069 in 1951)); eighteen confirmed notifications of diphtheria (compared with thirty in 1951); twenty-five notifications of typhoid and paratyphoid fevers; 467 notifications of erysipelas (giving an attack rate of 0.139 per 1,000 compared with 0.148 in 1951); 612 reported cases of food poisoning (787 in 1951); 31,055 notifications of measles (higher than in any year in the corresponding stage of the biennial cycle since the end of the war); 1,908 notified cases of pneumonia

(0.567 per 1,000 compared with 0.717 in 1951). There were twenty-five deaths from rheumatic fever in 1952. Notifications of scabies numbered 535. There were 5,263 cases of scarlet fever (1.56 per 1,000 compared with 1.10 per 1,000 the previous year). Deaths from influenza numbered 162 (1951:809).

In a review of health service premises it is stated that during 1952 London Executive Council agreed to the County Council's proposals for the reservation of a further nine sites.

COMMITTEE ON AIR POLLUTION

Advice on Smoke-control Measures

IN the House of Commons in December 1953 THE MINISTER OF HOUSING AND LOCAL GOVERNMENT (Mr. Harold Macmillan) announced that the interim report of the Committee on Air Pollution was being published that day, and a statement on Government policy would be circulated. In the statement the Government recommended that smoke-control measures in factories, shops, offices, etc., should be brought up to peak efficiency at once and checked at frequent intervals throughout the winter. Special efforts should be made to prevent heavy smoke when stoking. Much of the smoke from factory furnaces could be prevented, and it was the responsibility of managements, particularly in times of fog, to see that smoke was kept to the minimum. Managers of industrial plants and establishments such as hospitals and offices should institute a continuous check to ensure that dark smoke was not emitted from their chimneys either by day or night, and particularly during the early morning before daybreak. That check could best be made by the installation of a smoke-density indicator. Copies of drawings of simple devices for smoke indicating could be obtained from the Ministry of Housing and

Local Government and the Department of Health for Scotland. The fuel engineers of the Ministry of Fuel and Power were working in co-operation with the inspectors of the local authorities in a special drive to bring home to managements the importance of fuel efficiency in the interests of smoke abatement. The report stated that full use should be made of those services by companies.

The Interim Report which is published by H.M. Stationery Office, price 1s. 6d., mentions that medical experience left no doubt that while clean white fog to which Britain was inevitably prone might have uncomfortable effects on people in certain states of health, the harmful and dangerous "smog" occurred only when smoke and oxides of sulphur and perhaps other deleterious substances were present in the fog in quantity. Health suffered wherever smoke was prevalent even in the absence of fog or mist, but it was their combination that did real harm.

On the subject of the immediate rise in both illness and mortality that followed the "smog" that covered Greater London from December 5-9, 1952, the report gives the following table:—

DEATHS DIVIDED ACCORDING TO CAUSE

Cause	Average number of deaths registered in weeks ending 8, 15, 22, and 29 November	Number of deaths registered in week ending December			
		6	13	20	27
Pulmonary tuberculosis	17	14	77	37	21
Lung cancer ...	34	45	69	32	36
Heart disease ...	226	273	707	389	272
High blood pressure ...	14	19	47	36	21
Other diseases of circulatory system	22	26	46	31	32
Influenza ...	2	2	24	9	6
Pneumonia ...	31	45	168	125	91
Bronchitis ...	51	76	704	396	184
Other respiratory diseases	6	9	52	21	13
Ill-defined causes ...	20	25	79	35	37
All other causes ...	340	411	511	412	316
All causes ...	763	945	2,484	1,523	1,029

The report also refers to a paper read by Dr. Wilkins (officer-in-charge, atmospheric pollution section of the Fuel Research Station) on November 11, in which is included a chart that shows a continuing abnormal death

rate in Greater London during the two-and-a-half months following the "smog," and which compares that with the pollution of the atmosphere by sulphur dioxide during the same period.

N.H.S. STATISTICS

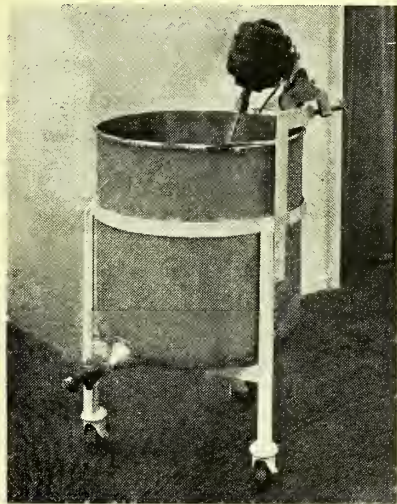
IN NORWICH in the half year ended September 30, 1953, 280,834 prescriptions were dispensed (9,400 more than in the corresponding period of 1952).

IN GLAMORGAN during 1952, 4,727,622 prescriptions were dispensed at a total cost of £993,160. In 1949 the figures were 4,038,706 and £570,626 respectively.

IN ENGLAND in February 1953, 42,374,738 prescriptions (24,639,781 forms) were dispensed at a total cost for ingredients, fees and containers of £3,964,760. Average total cost per prescription was 47.10d.

MACHINERY, PLANT AND EQUIPMENT

Portable Mixing Vessel.—By clamping a high speed stirrer from the range of Metal Propellers, Ltd., 74 Purley



Way, Croydon, Surrey, on to one of the company's steel portable containers, as illustrated, a portable mixing vessel can be produced. The containers are available in sizes of from 10- to 150-gall. capacity.

Storage Shelving.—Steel shelving for storage purposes is available in a range of standard units from Evertaut, Ltd., Walsall Road, Perry Bar, Birmingham, 22B, enabling almost any type of rack or shelving to be put together from stock parts.

Non-electric Time Recorder.—Complete records of working hours, for calculating wages, are made possible by the Gensign eight-day spring-wound time recorder manufactured by General Signal & Time Systems, Ltd., 73 Great Peter Street, London, S.W.1. The recorders may be had on a rental basis that includes full maintenance.

Storage Buildings.—Temporary buildings put up without any form of mechanical preparation are made possible by the Tubeclamp multiple-unit



construction method of which the sole concessionaires are Raylor Bros., Ltd., 59 Beavers Lane, Hounslow, Middlesex. The concessionaires make the claim that a Tubeclamp standard roof truss can be assembled on the site in twenty minutes. Buildings put up by the method are just as easily dismantled, re-erected or extended.

Silicate Paints.—Claiming to be the largest manufacturers of silicate paints in the country, Joseph Crosfield & Sons, Ltd., Warrington, offer silicate solutions of various strengths and in various ratios of alkali to silica. A descriptive booklet is available

Assembly Trays for Factory Use.—For storage purposes, or for holding parts needed in factory assembly, Precision Components (Barnet), Ltd., 13 Byng Road, Barnet, produce a range of interlocking, sloping-front trays in phenolic material and specially constructed for stacking and labelling.

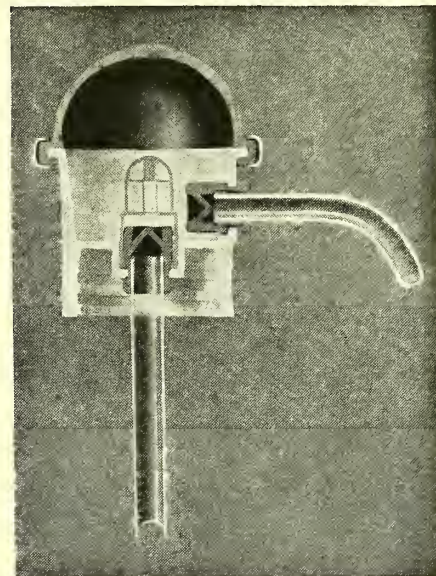
Hand-operated Filling Machine.—Flexile Metal Co., Ltd., 796 Holloway Road, N.19, offer to demonstrate their Flexile hand-operated filling machine for collapsible tubes. One hand lever operates pump and valve. One operator can fill twenty-five to thirty gross of tubes per day. The machine fills all sizes of tube from $\frac{3}{8}$ to $1\frac{1}{2}$ in. diameter. Special nozzles are available to fill jars or bottles.

Colour-Corrected Fluorescent Lamps.—An Osram range of colour-corrected mercury-vapour discharge lamps is available from General Electric Co., Ltd., Magnet House, Kingsway, W.C.2, in 80-watt and 125-watt ratings. The colour appearance and colour rendering of the lamps make them a substantial improvement over their predecessors. Improved temperature stability has enabled the outer bulbs to be reduced in size. The 125-watt lamp is available with G.E.S. or the 3-pin bayonet cap, the 80-watt with 3-pin bayonet cap.

Infra-red Oven.—The small infra-red oven illustrated is in use by a pharmaceutical manufacturer for drying Visk-rings on pharmaceutical products. The interior of the unit is variable in height to accommodate different sizes of bottles, and the drying of each Visk-ring is completed in thirty seconds. The unit is readily moved from one conveyor line to another, and deals with thousands of bottles daily. It was sup-

plied by Metropolitan-Vickers Electrical Co., Ltd., Trafford Park, Manchester, 17.

Measuring Pump.—S. B. Weston (Patent Utilities), 1 Argyle Road, Teddington, manufacture a measuring pump—the Syphonex illustrated—that



is readily adaptable to fit every variety of jar, bottle or can from which has to be pumped a measured quantity of substance. The Syphonex is capable of dealing with substances of any viscosity from spirits to hair-cream. So that suitable constructional materials are used, the makers need to know in advance for what purpose it is intended to use the pump. Bulb and valves may be of rubber, synthetic rubber or polyvinyl chloride as required. The capacity may range from 5 c.c. to 28.8 c.c. in the model shown. For special purposes much larger pumps can be produced. They have a suction tube long enough for almost any application. Sample pumps may be had on request.



Drying bottle caps by infra-red heater.

BURMESE IMPORTS

Survey Report Required

IN a further effort to stamp out currency smuggling and contravention of exchange control regulations, the Burmese Government has ordered that, as from January 1, with certain exceptions, all shipping documents covering imports must be accompanied by a survey report of the goods shipped. Such survey report is not required in the case of any firm in Rangoon which accepts responsibility for goods imported and guarantees to make good any loss of foreign exchange which the Government might incur through imports not being as invoiced.

The Burmese police say that foreign exchange has been granted to some Rangoon firms in the past for imports which were either imaginary or worthless. They add that those firms working with their accomplices abroad were able to smuggle money out of the country and evade control regulations. The contravention was discovered when customs opened crates which had not been taken from the docks by importers. They were found to contain worthless goods—one consignment sent by a mythical British firm was supposed to contain penicillin and other medicines but in fact contained water.

The survey report, which must be completed by a firm of international repute, must detail the number of parcels or pieces; number or quantity per parcel; total weight; total length or measurements; commercial definition or description of the commodity; grade or type; and chemical or physical analysis. It is thus hoped to eliminate fraudulent imports by ensuring that the goods mentioned on bills of lading are actually shipped. Importing agencies and firms in Burma who can obtain credit abroad will receive foreign exchange permits once the goods are passed through Rangoon customs. Commercial interests do not see it as a prelude to further import licensing or restrictions but merely as a further expense and possibly slowing down of deliveries.

The Prime Minister (U Nu) said in a speech a few days ago that the government would be doing all in its power to help small traders and importers. That was not seen as discrimination against foreign firms.

TRADE MARKS

From the "Trade Marks Journal," December 23, 1953

For veterinary substances (5)

BIOGRO, 723,984, by Pest Control, Ltd., Bourn, Cambs.

For feeding bottles (5)

FIRMASIL, 723,804, by Wood Brothers Glass Co., Ltd., Barnsley.

From the "Trade Marks Journal," December 30, 1953

For fertilisers for lawns (1)

VELVETONE, B711,518, by International Toxin Products, Ltd., Liverpool.

For photographic chemicals (1)

PLUMTREE, 721,884, by A. Gilby & Sons, Ltd., London, S.W.19.

For non-medicated toilet preparations (3)

LANOPLUS, 715,326, by Consolidated Cosmetics, Chicago, U.S.A. VELVET GLOVE, 723,921, by Lenthic, Ltd., London, W.1.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, January 10

JUNIOR BRANCH, MANCHESTER AND SALFORD BRANCH, PHARMACEUTICAL SOCIETY, ramble via Edale, Kinderscout and Hayfield. Meet at booking office, Central Station, Manchester, at 9.45 a.m.

LONDON PHARMACY RAMBLERS, eleven-mile walk for Leith Hill summit and Jayes Park, Surrey, meet in compartments reserved in name of Mr. S. Robinson on 9.37 a.m. special train from Victoria (connection from London Bridge 9.28 a.m. train at West Croydon, 10.2 a.m.) to Holmwood.

Monday, January 11

ISLE OF THANET BRANCH, PHARMACEUTICAL SOCIETY, Belle Vue Hotel, Cliftonville, at 8 p.m. Film show presented by Mr. Steward Dunn.

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polyson Hotel, Southampton, at 7.30 p.m. A representative of Yardley & Co., Ltd., on "Skin Care and the Art of Make-up" followed by demonstration.

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, Dorset café, Ocean Road, South Shields, at 7.30 p.m. Mr. E. C. Coleton on "The Duties and Powers of a Coroner."

Tuesday, January 12

BIRMINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Imperial Hotel, Birmingham, at 8 p.m. Mr. E. A. Brocklehurst (vice-president of the Society) on "Talking about Pharmacy."

EAST KENT, FOLKESTONE and ISLE OF THANET BRANCHES, PHARMACEUTICAL SOCIETY, Falstaff Hotel, Canterbury, at 8 p.m. Dr. H. Davis (chief pharmacist, Ministry of Health) on "The Report of the Joint Committee on Prescribing."

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, and WEST HAM BRANCH, NATIONAL PHARMACEUTICAL UNION, Swan Hotel, Stratford Broadway, London, E.15, at 8 p.m. Mr. J. Wright (assistant secretary, N.P.U.) on "National Health Remuneration."

HOUSLOW BRANCH, PHARMACEUTICAL SOCIETY, Sun Hotel, Hanworth Road, Houslow, at 8 p.m. Mr. W. R. Roberts (chief inspector of the Society) giving "A Commentary on Poisons Law."

Wednesday, January 13

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, Botanical Gardens, Edgbaston, at 8 p.m. Dance.

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Symposium meeting. Papers by Messrs. John Anderson (chairman, Pharmaceutical Standing Committee (Scotland)), W. T. Elder (a member of the Society's Council), and S. Hughan (chairman of the Executive, Scottish Department).

MANCHESTER PHARMACEUTICAL ASSOCIATION, Grand Hotel, Aytoun Street, Manchester, at 6.15 p.m. Annual dinner and dance.

TORQUAY BRANCH, PHARMACEUTICAL SOCIETY, Torbay Hotel, Torquay, at 7.30 p.m. New Year party. Ticket (price 7s. 6d.) from Mr. T. D. Evans, Castle Circus, Torquay.

Thursday, January 14

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Mr. J. Carmichael, C.M.G., D.Sc., M.R.C.V.S., Dip.Bact., on "Veterinary Therapeutics and the British Veterinary Codex" and Mr. R. F. Montgomerie, Ph.D., B.Sc., F.R.C.V.S., on "The Biological Products of the British Veterinary Codex."

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION, Hotel Victoria, New Brighton, at 7.30 for 8 p.m. Annual dinner and dance.

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, board room, Guildhall, Small Street, Bristol, at 7.15 p.m. Dr. K. C. P. Smith on "Child Guidance and the Pharmacist."

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metro-pole Hotel, Leeds, at 7.30 p.m. Mr. G. H. Wright, M.P.S., A.R.P.S., on "An Eye for Colour."

LIVERPOOL CHEMISTS' ASSOCIATION and BRANCH, Adelphi Hotel, Liverpool, at 7.30 p.m. Address by Dame E. M. Russell-Smith (under secretary, Ministry of Health).

MONMOUTHSHIRE AND NEWPORT CHEMISTS' ASSOCIATION, King's Head Hotel, Newport, at 7 p.m. Annual dinner and dance.

NORTH LONDON PHARMACEUTICAL ASSOCIATION, Frascati Restaurant, Oxford Street, London, W.1, at 6 for 6.30 p.m., annual dinner and dance. Ticket (price 30s.) from Mr. A. E. Footitt, 5 Mountgrace Road, Potters Bar, Middlesex.

THAMES VALLEY PHARMACISTS' ASSOCIATION and WIMBLEDON BRANCH, PHARMACEUTICAL SOCIETY, Kingston Hotel, Kingston-on-Thames, at 7.45 p.m. Debate.

Friday, January 15

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, chemistry lecture theatre, King's College, Strand, London, W.C.2, at 4.30 p.m. Discussion and demonstration on "Paper Chromatography and Electrophoresis" arranged by Dr. Tudor S. G. Jones (Wellcome Research Laboratories).

PRICE CHANGES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *Tax 25 per cent.; †Tax 75 per cent.

THE BRITISH DRUG HOUSES, LTD.

	Each	I.R.P.
Anacardone 2-mil ampoules,		
25	8 0	12 0 R
100	23 6	35 3 R
The price of box of 6 is unchanged.		
Ethodryl tablets,		
20	3 0	4 6 R
100	12 8	19 0 R

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD. (from January 11)

Dibencil oral suspension
50 c.c. 12 6 R
Claims for rebate (quoting batch numbers) on stock held should be sent in to the company by January 18.

MONSANTO (SOIL CONDITIONERS), LTD. (from January 1)

Krilium Merloam, 1-lb. tin 7 6 R

PFIZER, LTD.

Permapen oral suspension.

60 c.c. 15 0 R

JOHN WYETH & BROTHER, LTD. (from January 11)

Penidural oral suspension 15 0 R
Credit will be allowed at 3s. 9d. per bottle on stocks held at closing time on January 9. Claims (quoting batch numbers) for rebate should be received not later than January 16.

P.A.T.A PROTECTED LIST

GENATOSAN, LTD. (from January 1)

Fissan anal suppositories*	Doz.		
6	16 0	2 4 A	
12	30 0	4 4½ A	

ELI LILLY & CO., LTD.
No. 1715 folic acid tablets.

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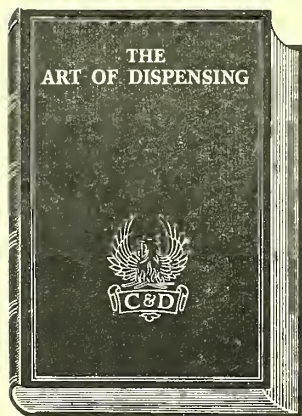
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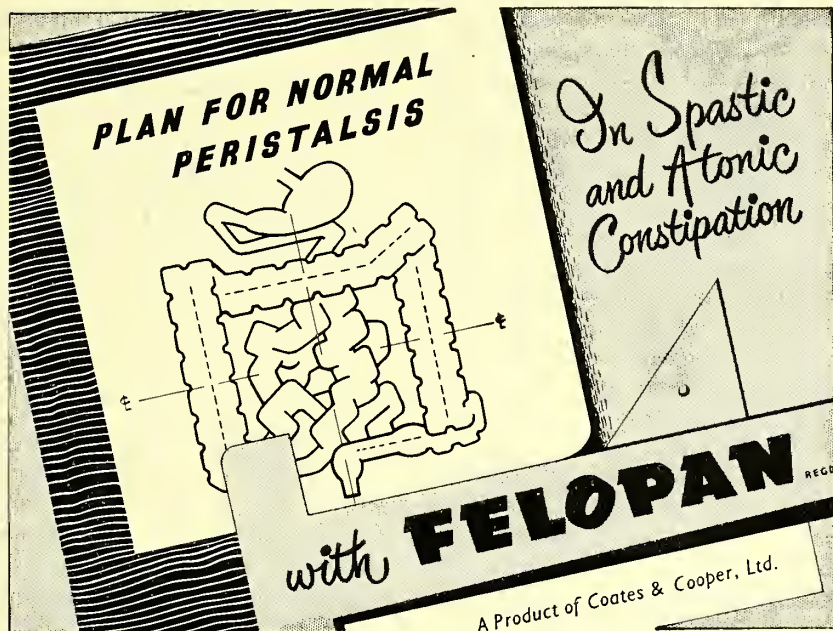
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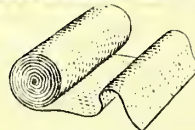


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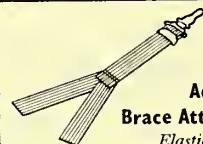


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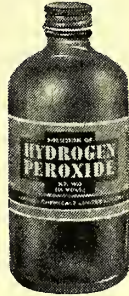
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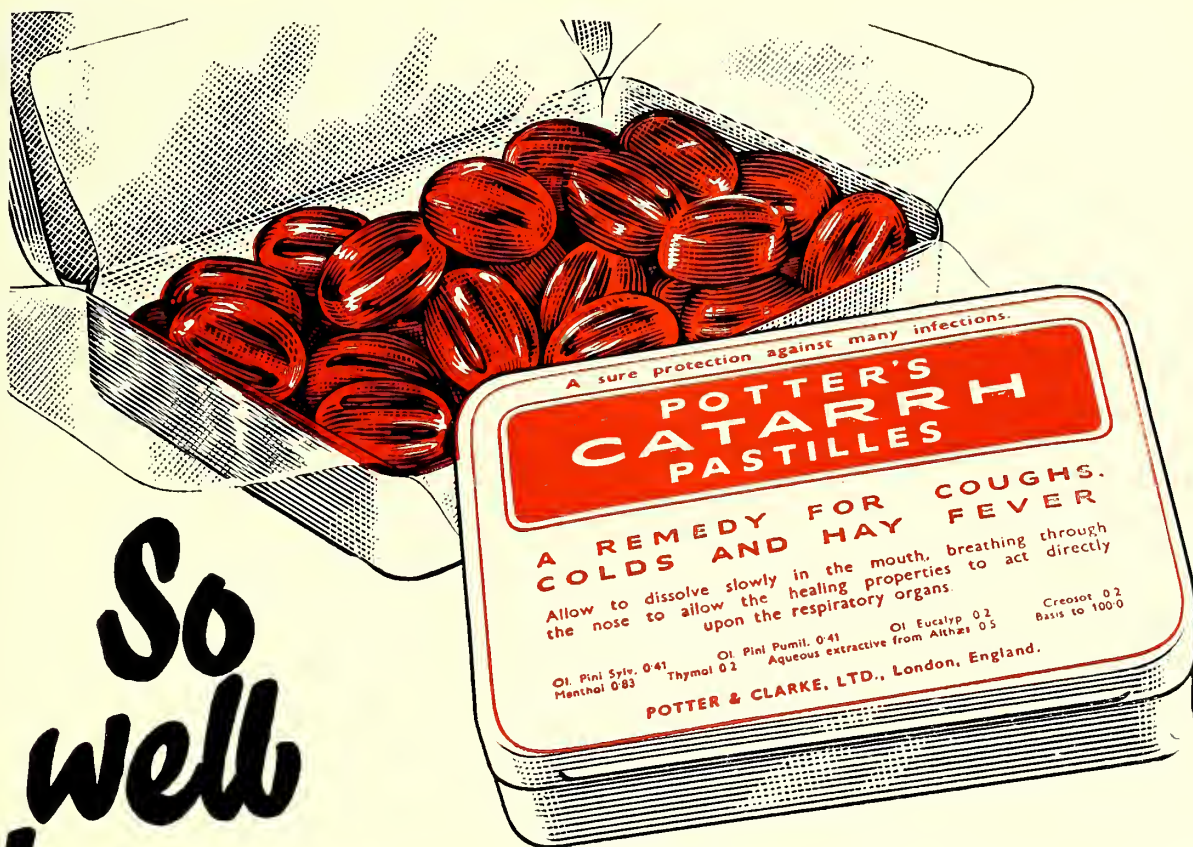
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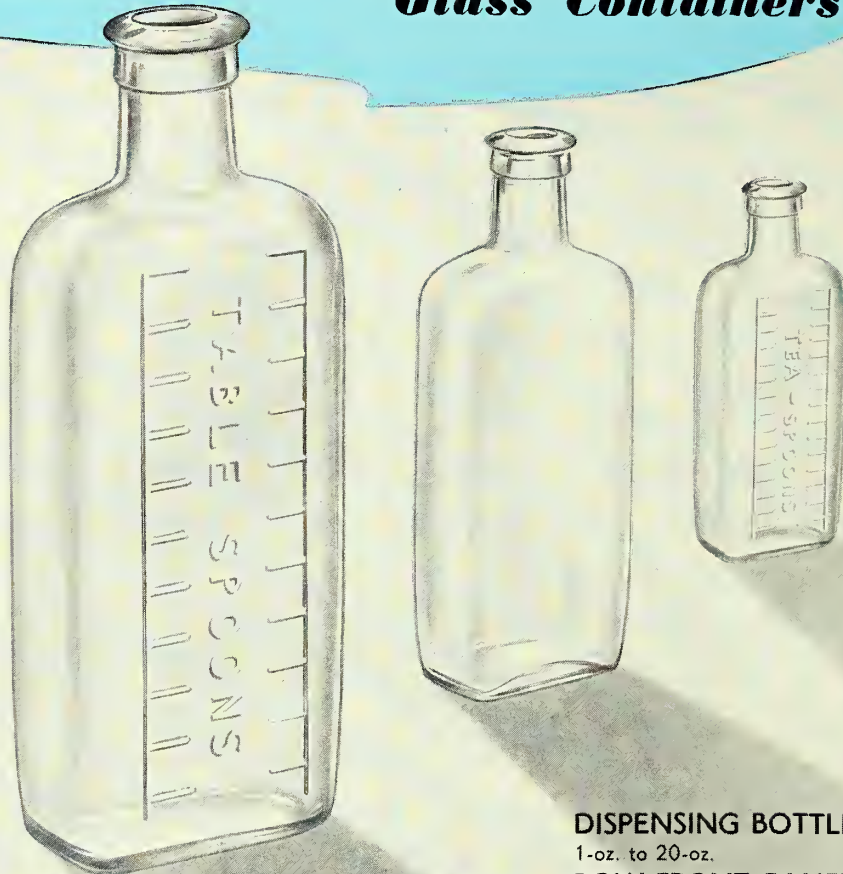
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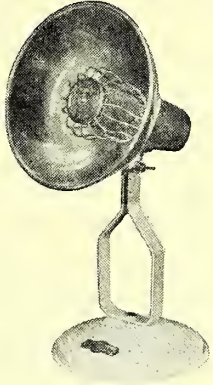
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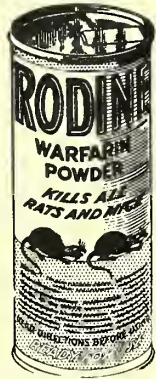
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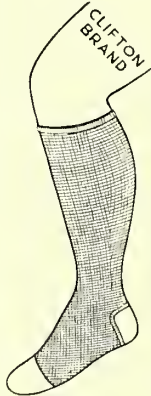
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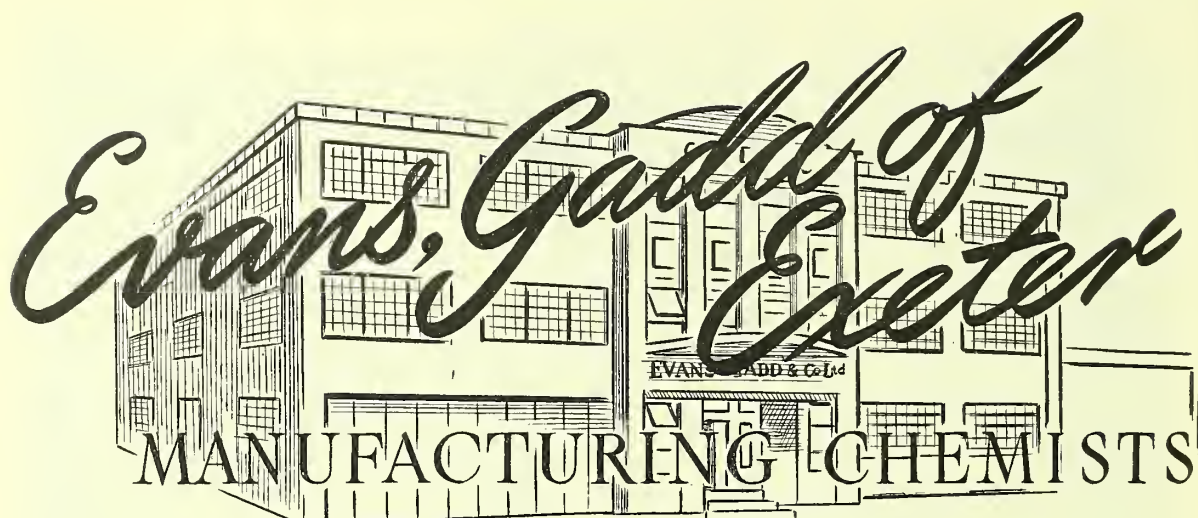
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BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia by the largest distillers and refiners of Eucalyptus Oils in the world.—W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA

80/85% Rectified B.P.
Oil Euc. Dives 40/45%
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Agents for U.K.: **WILSON & MANSFIELD, LTD., 15 Philpot LANE, LONDON, E.C.3**

Phone : MANSION HOUSE 9264-5-6

(WHOLESALE ONLY)

Grams : WYFIELD, LONDON

NOW! 6^D Sachets of Silvikrin Liquid Shampoo

in this distinctive
new display outer!

Holds 3 dozen sachets—
yet it's small enough
for the smallest
counter!



Already—so soon after appearing on the market—the 6d. sachet is an overwhelming success! The supply can scarcely keep pace with the eager demand. Don't miss this big chance!

ORDER SILVIKRIN LIQUID SHAMPOO IN SACHETS NOW!

SILVIKRIN LABORATORIES LTD · County Building, Honeypot Lane, Stanmore, Middlesex. Wordsworth 4321

This half-page advertisement
in the "DAILY EXPRESS" will
E-X-P-A-N-D *YOUR*
'ASPRO' SALES!

FLU **COLDS** **FLU** **COLDS**

When you're **Hemmed In** BY COLDS AND 'FLU

Free yourself with **FASTER-THAN-EVER 'ASPRO'**

THIS IS HOW You take two 'ASPRO' tablets with a hot drink and almost from the start you feel the difference. 'ASPRO' brings the temperature down very rapidly—this not only relieves you of immediate distress and discomfort but prevents fever-reducing effect, and at the same time, 'ASPRO' action is safe. IT DOES NOT HARM YOU in any way whatsoever—that is why ALL the family can use it—that is why it BEATS AND Baffles the 'FLU EVERYWHERE, ALL THE TIME.

FASTER THAN EVER ASPRO ACTS

FEEL those uneasy, nervy, shivery sensations **FADE RIGHT OUT**

DOSE FOR KIDDIES
At the first signs of a cold or flu attack coming on, 'ASPRO' may safely be given to a child in the doses indicated:
3-6 years, 1 tablet
6-14 years, 1 tablet
'ASPRO', like any other medicine of its kind, should not be given to babies under three years of age without medical advice.

Over 6 million ASPRO tablets taken daily

PRICES:
5⁰ (12 tablets) • 9¹/₂ (24 tablets) • 1/8 (packet)
MADE BY ASPRO LIMITED, SLOUGH, BUCKS

'ASPRO'



Be sure to have a bigger-than-ever 'ASPRO' display from January 9th onwards and tie up with our national large space winter campaign.

PUT IN DISPLAYS THAT PULL IN THE PUBLIC

Made by ASPRO LIMITED, SLOUGH, BUCKS


The CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS
 Supplement

28 ESSEX STREET, STRAND, LONDON, W.C.2

ORRIDGE & COMPANY 184 STRAND, W.C.2

Tel.: TEMple Bar 9212/3 & 6340

CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL
BRANCHES: BIRMINGHAM SOUTHAMPTON LIVERPOOL · SHEFFIELD · CARDIFF

Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel.: Belfast 27078

BUSINESSES FOR DISPOSAL

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

ROCHDALE. Main-road pharmacy for sale, at present under management. Turnover £4,500-£5,000 p.a. with scope for increase, including £2,000 N.H.S. (about 1,000 scripts per month average). Lock-up shop on lease. Price for fixtures and goodwill £500. Stock at valuation (about £1,750). Property can be purchased for £500. Apply for details to Broderick Boardman & Co., 2-4 Clarence Street, Manchester, 2. C 4748

NO GOODWILL. Fixtures and fittings free. Rochdale pharmacy established 30 years, offered for £2,000 (approximate value of stock and property only). Business averages £50 counter and £30 N.H.S. weekly. Scope for increase and for optics. Other business necessitates immediate disposal. Richardson, 56 Whitworth Road, Rochdale, Phone: 2925. C 4755

APPOINTMENTS

18/- per half-inch (min.) and pro rata.
Box 2/-

**CRUMPSALL HOSPITAL,
MANCHESTER, 8**

(Adult General, 1,225 Beds)

Applications are invited from Pharmacists for the post of Pharmacist at this Hospital. Salary and conditions of service as laid down by the Whitley Council.

Applications, giving age, nationality, details of experience, together with the names and addresses of two referees, are to be sent to the undersigned as soon as possible.

A. T. SAMPSON, Dept. "C.D.",
Group Secretary.
C 176

**ENFIELD GROUP HOSPITAL
MANAGEMENT COMMITTEE**

PHARMACIST required. Salary £450 (at age 23) x £25 to £575, plus £25 for additional recognised qualifications. Whitley conditions. Applications, giving full particulars and the names and addresses of two referees, to the Secretary of the Management Committee at Chase Farm Hospital, The Ridgeway, Enfield, Middlesex, by January 28, 1954. C 6333

**ILFORD AND BARKING GROUP
HOSPITAL
MANAGEMENT COMMITTEE**

Applications are invited for the post of Pharmacist to work at Hospitals within the Group. Ability to drive a car an advantage. Mileage allowance payable. Salary and conditions of service as laid down by the Whitley Council. Applications together with the names and addresses of two referees should be sent within fourteen days of the appearance of this advertisement to the undersigned.

H. F. HARRIS,
Deputy Secretary.

King George Hospital,
Ilford. C 6390

**METROPOLITAN HOSPITAL,
KINGSLAND ROAD,
LONDON, E.8**

ASSISTANT IN DISPENSING required. Whitley Council conditions of service. Applications stating age, experience, etc., with names of two referees to the Hospital Secretary immediately. C 6360

**NORTH WEST DURHAM
HOSPITAL
MANAGEMENT COMMITTEE**

Applications are invited for the under-noted vacancy:—

SENIOR PHARMACIST
(Resident or Non-resident)
At the SHOTLEY BRIDGE GENERAL HOSPITAL (557 beds).

Appointment offers a thorough experience in all branches of hospital pharmacy. Applicant would be responsible for the manufacture of sterile preparations. Salary and conditions of service according to the Pharmaceutical Whitley Council decisions.

Applications, stating age, qualifications and experience, together with names of two referees should be sent to the Secretary, Shotley Bridge General Hospital, Shotley Bridge, Consett, Co. Durham. C 6355

ROYAL HALIFAX INFIRMARY

APPLICATIONS invited for post of PHARMACIST at the above hospital. Salary in accordance with Whitley Council Scales, namely £450 x £25 to £575 per annum. Applications stating age, qualifications and experience with names and addresses of two referees, to be forwarded to the Group Secretary, Royal Halifax Infirmary, Halifax. C 6370

**ST. MARK'S HOSPITAL,
CITY ROAD, LONDON, E.C.1
(Post-graduate Teaching Hospital)**

Applications invited for the appointment of PHARMACIST at the above Hospital, where there is a busy Pharmaceutical Department and a wide variety of experience is offered. Salary scale £450-£575 p.a., plus London Weighting. Age, qualifications, experience, names of two referees to Secretary. C 6388

**THE HOSPITAL FOR SICK
CHILDREN,
GREAT ORMOND STREET,
LONDON, W.C.1
PHARMACIST**

Applications are invited for the post of pharmacist at this hospital. Salary within the Pharmaceutical Whitley Council Scale (£450 x £25-£575) plus London Weighting, £25 for recognised higher qualification. Apply by letter to Chief Pharmacist. C 166

**WEST LONDON HOSPITAL,
HAMMERSMITH ROAD, W.6**

LOCUM SENIOR PHARMACIST required for several weeks commencing immediately to take charge of production, sterile preparation and stores. Salary 15 guineas per week. Apply Chief Pharmacist. C 6371

**UNITED SHEFFIELD HOSPITALS
JESSOP HOSPITAL FOR WOMEN**

Applications are invited for the appointment of Assistant in Dispensing (Female). Certificate of the Society of Apothecaries is essential. Salary £335 p.a. at age 22—maximum £430 p.a. Residence can be provided within the hospital if required. Applications, stating age, experience, qualifications, together with the names of two referees should be made to the Superintendent, Jessop Hospital for Women, Sheffield, 3. C 6345

**WEST MIDDLESEX HOSPITAL
(Category V)
(SOUTH-WEST MIDDLESEX
HOSPITAL
MANAGEMENT COMMITTEE)**

Pharmacist required. Salary scale £450 x £25 to £575 plus London Weighting. Higher qualification allowance £25 per annum. Whitley conditions applicable. Applications stating age, qualifications and experience with names of two referees to Chief Pharmacist, West Middlesex Hospital, Isleworth, Middlesex. C 6344

**WORTHING GROUP HOSPITAL
MANAGEMENT COMMITTEE
WORTHING HOSPITAL,
LYNDHURST ROAD,
WORTHING, SUSSEX**

Applications are invited for the post of Pharmacist (male or female) at the above Hospital. Salary and conditions of service in accordance with Pharmaceutical Whitley Council. Applications, stating age, qualifications, experience and present employment, with the names of two referees to be forwarded to the Hospital Secretary.

A. V. OAKTON,
Group Secretary.
C 6376

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word.
Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

BANSTEAD, SURREY. Experienced unqualified dispenser required for good-class country business. 15 miles from London. Staff of four. Comfortable digs available but no other accommodation at present. Apply, stating age, experience, etc., salary required to Mr. Woollatt, Skidmore, chemist, 30 High St., Banstead. Phone: Burgh Heath 720 (after hours, Burgh Heath 2024). C 4720

REPRESENTATIVE

Applications are invited by Manufacturing Chemists of highest standing from gentlemen with a good retail pharmaceutical background and resident on the territory for West of England comprising Glos, Wilts, Herefords, and parts of adjacent counties. Duties involve the cultivation of the wholesale and retail trade as well as a limited amount of professional propaganda. Remuneration by salary and expenses, a car being provided. Apply to Sales Director giving age and full particulars of experience to date. Box C 6336.

PARKE, DAVIS AND COMPANY, LIMITED**Medical Representatives**

Further appointments will shortly be made to our Home representative staff and applications are invited from pharmacists not over 35 who are interested in this type of work as a career.

Previous experience of representation is not necessary but applicants should have a good pharmaceutical background and a keen interest in ethical pharmacy.

Salaries are based on experience and appointments are progressive and pensionable.

Application forms may be obtained from the Personnel Manager, Parke, Davis & Co. Limited, Staines Road, Hounslow, Middlesex.

C 6335.

Situations Open—Continued

CHEMIST'S counter assistant required. Must be experienced and have pleasant personality. Excellent conditions. Apply Kendale Dispensing Chemists, 51 Exmouth St., E.C.1. Phone: Terminus 9494. C 6381

EDGWARE. Dispensing assistant (unqualified) male or female required for busy pharmacy. Apply John Harley, Ltd., 21 North Parade, Mollison Way, Edgware, Middlesex. C 4746

EXPERIENCED PHARMACIST required for branch managerial position in a pleasant North Western area of London. Well fitted shop with adequate supporting staff. Substantial cash trade with good dispensing connection. Excellent salary and commission, good promotion prospects. Accommodation available away from branch if required. Permanency with superannuation benefits. Apply with full details of experience, stating when available for interview to Chief Pharmacist, Grange Road, Leyton, E.10. C 4738

HOLBORN, W.C.1. Young lady counter assistant required for good-class toilet counter. Congenial position with Saturday half-day. Please write to A. R. Cross, Ltd., 240/1 High Holborn, W.C.1, or telephone Mr. Milner, Holborn 7379, with a view to an appointment. C 6341

LADY ASSISTANT required mainly for counter work in high-class pharmacy. Experience essential. Knowledge of dispensing an advantage. Apply with full particulars to J. W. Quibell, Ltd., 885 Finchley Road, Golders Green, N.W.11. Speedwell 0068/9. C 4768

S.E. LONDON. Qualified person, either sex, required for new, good-class retail business. Excellent prospect of expansion. Generous salary, commission and full co-operation. Box C 4765.

MANAGER REQUIRED for new pharmacy to be opened in the New Year. Three bedroomed maisonette over the premises available. The position is permanent and offers excellent developing prospects. Good commencing salary with superannuation benefits. Locum Pharmacist is also required for continued employment from January to October with prospects of permanency. Apply, giving full particulars:—The Staff Manager, Royal Arsenal Co-operative Chemists, Ltd., 71 Powis St., Woolwich, S.E.18. C 6328

NORTH LONDON. Unqualified dispensing assistant required for branch in Park Lane, Tottenham. Salary plus bonus. Hours 9 a.m.-6 p.m. Permanency. Three weeks' holiday a year. Apply with details of experience to A. R. Cross, Ltd., 476 Hertford Road, Enfield, or telephone Howard 1723 or 2916 for an appointment. C 6340

OPPORTUNITY for unqualified male assistant with good all-round experience for West End of London pharmacy. Good counter manner essential. Staff profit sharing scheme. Box C 4751.

PHARMACIST wanted few hours daily. Comfortable and permanent berth, would suit semi-retired lady or gentleman. Near Wanstead, Essex. Box C 4759.

PHARMACIST. Manager required for easily run pharmacy. Good accommodation, congenial post. Permanency. Rota duties one week in six. State experience and salary required. Apply Skitt's Pharmacies, Ltd., 104 High St., Ramsgate. C 4714

LOCUMS WANTED

LOCUM PHARMACISTS required for London and Suburban areas, long or short periods January-October 1954. Permanency at conclusion of tour if required. Salary and expenses basis. H. Warburton, M.P.S., Chief Pharmacist, Grange Road, Leyton, E.10. Leytonstone 5671. C 4737

LOCUM WANTED. August 9-21. Competent staff. Mainly supervisory. W. H. Harrison, M.P.S., 65 Picton Road, Liverpool, 15. C 4766

RETAIL (OVERSEAS)

A VACANCY EXISTS for a pharmacist (single man) for service in E. Africa with a company with retail branches in Nairobi, Dar-es-Salaam, Mombasa, Tanga, Arusha, Eldoret, Kampala, Kitale and Nakuru. Starting salary £810 p.a. including cost-of-living allowance, with three annual increments to £900 p.a. and four further annual increments to £1,100 p.a. Tours are for four years with annual local leave followed by home leave on full basic pay. Contract renewable by mutual agreement. Kit allowance and free passage both ways. Non-contributory pension plan now being introduced. Applicants must hold M.P.S. qualification of Great Britain or Northern Ireland. Apply, in writing, giving qualifications and experience to Box C 6384.

WHOLESALE

£1,000 AND MORE can be earned by smart sales representative with knowledge of disinfectants and entrance to industrial concerns, cinemas, etc. Must reside in London area, and must be car owner. The post is offered by well-known old-established company. Apply giving full details of career to date to Box C 6373.

AN EXCELLENT opportunity occurs for a first-class representative to cover the Home and South-eastern Counties and East Anglia calling on retail chemists, ladies' hairdressers and departmental stores for old-established manufacturers of toilet preparations. Preference will be given to a man with knowledge of the trade and residing in the London area. Permanent opening carrying salary, commission and expenses. Car owner essential. Application should be made by letter, giving particulars of age and past experience, and stating whether car owner, to Sales Manager, Evan Williams & Co., Ltd., Aintree Road, Perivale, Middlesex. C 6353

AN EXCEPTIONAL OPPORTUNITY arises in an old-established firm of manufacturing and wholesale chemists in South Midlands for a qualified chemist about 35 years of age. Wholesale experience and a good record as a representative is essential. The post offers excellent prospects for the right type of man with ability, ambition and initiative. Candidates should possess a comprehensive knowledge of ethical specialities. Applications in own handwriting giving age, full personal details, education and experience, together with recent photograph if available, to Managing Director, Box C 4754.

ASSISTANT warehouse manager required. Must have general knowledge of the chemists and wholesale distributing trades and used to the control of staff. Good conditions and salary. Permanent position to the right man. London N.W.1 district. Write, in confidence, full particulars, age, experience and salary required to Box C 6374.

ASSISTANT to Chief Chemist required by medium-size cosmetic and pharmaceutical manufacturer in London area. Degree in chemistry or equivalent. Will work under brilliant man and will learn a lot. May take his place in a few years. Some experience desirable, hard work and enthusiasm essential. Write fully, giving age, salary required to Box C 6357.

BOTANICAL DRUGS. Leading drug firm require executive with sound knowledge of world botanical crops, import and export procedure. This appointment calls for a keen, energetic man of sound judgment, experienced in the procurement and marketing of drugs. Applicants should give complete details of experience, age, positions held, in absolute confidence. Own staff advised. Short list interviews within three weeks. Box C 6378.

EXPORT CLERK (fine chemicals and botanicals). Experienced clerk required to handle inquiries and documentation in connection with export of chemicals and botanicals by leading City firm. Applicants should give full details in confidence. Own staff advised. Interview within three weeks. Box C 6377.

C. L. BENCARD, LTD., Park Royal, London, N.W.10. Require immediately six medical representatives for the following territories: 1, Western Scotland; 2, Tyne-side; 3, S.E. Lancs; 4, Cheshire, Denbighshire, Shropshire; 5, Warwickshire, Herefordshire, Brecknock, Carmarthenshire; 6, Gloucestershire. Remuneration is by salary with all expenses paid. A company car is provided, and the appointment is pensionable with a profit-sharing bonus scheme in operation. Only applicants with previous medical propaganda experience should write giving full particulars in confidence to the Sales Manager. C 6321

DELAVELLE (SALES), LTD., 38-46 Orsman Road, London, N.1, require live representative to market their nationally advertised perfume and cosmetics in the East-Midlands area, which includes Derbyshire, Notts, Northants, Leicestershire, etc. Must be car owner and have connections with chemists, stores, co-ops, and wholesale outlets. Remuneration by salary, commission and expenses. Write fully, giving details of experience, age and present remuneration. C 6358

ESTABLISHED pharmaceutical company of highest repute now expanding its veterinary activities, requires territorial representatives to contact the veterinary profession only. Pharmaceutical background desirable but full training and every assistance given to successful applicants. Age group preferred 30-40 years. Remuneration by salary and commission, full expenses paid. Car provided and superannuation scheme operated. These positions offer responsible but congenial work with sound prospects to keen men with initiative. Please give details of age, education, career and salary required. Box C 6379.

EXCELLENT OPENINGS for creative salesmen of exceptional calibre for following territories: (1) Yorkshire and Tyne-side; (2) Lancashire and Cheshire; (3) London South-west and South-east; (4) Home Counties; (5) West Country. Sole agencies will be considered. The products are acknowledged leaders in their class and comprise well-known proprietaries and medicated confectionery. Applicants must be car owners with strong connections and possessing energy and initiative. Applications should be comprehensive and addressed to Sales Director. Box C 4757.

COMMISSION AGENTS

active in the following areas:—

London,

Home Counties,

Oxfordshire & Warwickshire (incl. Birmingham),
Berkshire, Wiltshire, Gloucestershire,

required by reputable pharmaceutical House for special assignment. A very generous rate of commission is offered with a guaranteed £50 per month.

The Company intends to build up a "new look" organisation and an excellent opportunity presents itself to selected Agents after proving their worth on the special project. Box C 6391.

Situations Open—Continued

EXCELLENT OPPORTUNITY for representatives calling on wholesale and retail chemists in the two areas detailed below to carry additional nationally advertised lines on good commission basis. Advertisers are well-known manufacturers of hair beauty preparations with established connections in the territories. Territories are (a) Norfolk, Suffolk, Cambs, Hunts, Beds, Herts, Bucks, Berks, Oxon; (b) West Country including Glos. and Wilts. Full particulars to Box C 4750.

FOR LONDON, South of London, the Home Counties and the Midlands, representatives wanted who wish to make additional turnover with the sale of well-known sunglasses. Existing accounts to be taken over. Good commission. Nupro, Ltd., 2 Netherwood Street, London, N.W.6. C 4760

GLAXO LABORATORIES, LTD., require a young pharmacist (B.Pharm. or Ph.C.) to work on pharmaceutical investigation and development of new products. Previous experience is not essential. The post offers good prospects to a young man who possesses imagination and initiative with a genuine liking for laboratory work of a creative nature. Apply, giving full particulars to Senior Personnel Officer, Glaxo Laboratories, Ltd., Greenford, Middlesex. C 6382

JOHNSON & JOHNSON (Gt. Britain), Ltd., due to a promotion require a first-class representative to call on retail and wholesale chemists in the Liverpool area. Preference will be given to those with connections in the area. The appointment is permanent and pensionable and remuneration is by salary and commission with expenses and car allowance. Applications, which will be treated in strict confidence, should give full details of past experience and be addressed to: Pharmaceutical Sales Manager, Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks. C 6362

LABORATORY ASSISTANT, Inter B.Sc. or equivalent, required for Midland Chemical Manufacturers works control laboratory, to be responsible for preparation of all standard analytical solutions and able to carry out miscellaneous chemical analysis. First class working conditions. Pension scheme. Apply in writing stating age, training, experience and salary required to Box C 4755.

LONDON wholesale distributors require checkers, male and female, must have had experience in the chemists' trade. Permanent positions. Canteen facilities. London, N.W.1 district. Write Box C 6375.

MACLEANS, LTD., manufacturers of tooth-paste and proprietary medicines, require an energetic and capable sales representative who is trained in modern sales methods to sell to chemists in Edinburgh and the East of Scotland. Applicants should be aged between 28 and 35 years, resident in above area, have some knowledge of selling to retail chemists and be willing to undergo any necessary further sales training. This is an opportunity for joining a first-class organisation where car, salary and expenses are provided and pension and profit-sharing schemes are operated. Write, stating age and details of experience to Personnel Manager, Macleans, Ltd., Brentford, Middlesex. C 6367

NOTTINGHAMSHIRE and Derbyshire, well-known nationally advertised tooth and toilet brush manufacturer requires energetic representative to develop existing retail chemist connection (no objection other lines). Full details to Box C 4764.

MEDICAL REPRESENTATIVES: Applications are invited by Sandoz Products, Ltd., from young men wishing to become medical representatives in the territories of Bristol, London, N.E., London, N.W., and S. Wales. Age not exceeding 28. Applicants should be qualified pharmacists (Ph.C., preferably) or possess degree in science. Salary commensurate with experience. Thorough training provided. Please send full details of age, education, qualifications and experience, with photograph, to the Manager, Sandoz Products, Ltd., 134 Wigmore Street, London, W.1. C 6334

PARKE, DAVIS & COMPANY, LIMITED, have a vacancy for a young pharmacist in their Export Sales Department. His work will entail the handling of day-to-day business for a group of overseas territories. There will be opportunities for travel and while a knowledge of languages would be an advantage, it is not essential. This position offers wide scope for an ambitious man. Five-day week. Pension scheme. Staff restaurant. Write, giving particulars of age, qualifications and experience to Personnel Manager, Parke, Davis & Company, Limited, Staines Road, Hounslow, Middlesex. C 6369

PERSONALITY Beauty Products, Ltd., of Ashby-de-la-Zouch have a vacancy for an experienced representative for the counties of Kent, Surrey and Sussex. Apply by letter giving full details of experience and ground covered. Box C 4771.

PHARMACIST for small proprietary medicine business. Write giving age and experience. Interview by appointment. George Eade, Ltd., 232 Goswell Rd., London, E.C.1. C 175

PHARMACIST required as assistant in general pharmaceutical manufacturing, ampoule and aseptic laboratories in the Birmingham area. Five-day week. Pension scheme. House available. Apply, giving all particulars including salary required to Box C 6393.

PHARMACIST, A young qualified man required by Parke, Davis & Co., Ltd., to fill a position of responsibility involving production planning and inter-department co-ordination. The position offers opportunity for progress, requires the development of initiative and a high degree of organising ability. 5-day week. Generous pension plan. Staff restaurant. Write giving particulars of age, qualifications and experience to Personnel Manager, Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex. C 6356

PHARMACIST, age 30 to 40 years, with available capital, required for small Midlands wholesale chemist, to assist in expansion and sales promotion. One interested in outside representation, but with some knowledge of inside production. Possibilities unlimited. Write, in confidence, with details of past and present experience. Box C 4758.

PROCESS WORKER experienced in small-scale manufacture of wets and ointments required. Excellent opportunity for advancement. Apply Biorex Laboratories, Ltd., 47 Exmouth St., E.C.1. Phone: Terminus 5216. C 6389

REPRESENTATIVES with established connections in and around London, required by expanding firm of chemists' sundriesmen. Applicants should state the areas in which they are best suited to concentrate with a view to ensuring a 24-hour van delivery service. Salary according to experience but not less than £8 per week plus all travelling expenses and commission. Write, in confidence. Box C 4761.

'UNISEC' from the Single Unit to the Complete Pharmacy

WRITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING

MYERS of OLD ST.

133/5 & 141/7 OLD STREET, LONDON, E.C.1

IMPORTANT

Box Office numbers are intended exclusively for specific answers to particular advertisements. Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.

PHARMACEUTICAL SPECIALITIES (May & Baker), Ltd., Dagenham, Essex. Applications are invited from pharmacists with a genuine interest in a career as a medical representative. The territory vacant comprises Lincolnshire and part of Yorkshire. This is a permanent and progressive position, and the initial salary will be commensurate with qualifications and experience. A bonus and an expenses allowance are payable in addition. Candidates should preferably be aged 25-35 years, and should have had experience in either hospital pharmacy, pharmaceutical industry or in good-class retail pharmacy. A good medical background would be an advantage. A contributory pension scheme is in force. Apply, initially, in writing, giving full details of qualifications and experience to the Personnel Officer. C 6342

REPRESENTATIVE required for Yorkshire and Northumberland to call on retail chemists for old-established firm with nationally advertised pharmaceutical and toilet products. Salary, commission and expenses. Write stating age and experience. Box C 6372.

REPRESENTATIVE required for the West of England by well-known company supplying chemists, stores and ironmongers. Salary, car allowance, expenses and commission. Box AC 86693, Samson Clarks, 57-61 Mortimer St., London, W.1. C 6387

SENIOR AND JUNIOR analytical chemists required in London laboratories of Pharmaceutical company having world-wide interests. Experience of the normal techniques desirable but not essential. Please address applications giving particulars of age, qualifications, experience and salary required to Chief Chemist, Menley & James, Ltd., 120 Coldharbour Lane, London, S.E.5. C 6364

SOUTH WALES, A well-known ethical house require the services of a first-class man as medical representative to take over their established connection on this territory. Previous experience while desirable is not essential but applicants should have a sound pharmaceutical background. The position is a pensionable one. Write in full confidence to Box C 6343.

THE BRITISH DRUG HOUSES, LTD., require a woman pharmacist in their dispensary. The position would be suitable for a young graduate or a recently qualified pharmacist wishing to obtain practical experience. Apply, in writing, stating age, experience and salary required to Staff Manager (GMG/HGR M. 3155), Graham St., City Rd., N.1. C 6361

TRAINEE REPRESENTATIVE required for London drug house. Excellent opportunity for an energetic young man who wishes to make salesmanship his career. Detail training essential. Apply, giving full details of past experience to Box C 6385.

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word.
Box 1/-

WHOLESALE

EXECUTIVE/REPRESENTATIVE (32), linguist, six years' experience sales, production, management, leading ethical firms at home and abroad, seeks new appointment. Public school, etc., Single. Reasonable travel no deterrent. Write Box C 4749.

Situations Wanted—Continued

EXPERIENCED REPRESENTATIVE, car owner, 41, good contacts chemists and hairdressers throughout Lancashire and Cheshire, requires extra lines on commission. Excellent references. Box C 4753.

EXPERIENCED REPRESENTATIVE with first-class chemist and hairdressers connection wishes contact small manufacturer capable producing tube-filled creams and sulphated products. Box C 4747.

GENTLEMAN, 30 years, with good appearance and personality, desires situation as medical representative. Unqualified, but full apprenticeship served (finance preventing me from qualifying). Full experience with selling of drugs, specialities, proprietary medicines, etc. Clean driving licence twelve years. Box C 4756.

GENTLEMAN with fine all-round experience of the pharmaceutical trade, sales, factory and office management, seeks executive position with good firm. Box C 4728.

PRACTICAL EXECUTIVE position required by gentleman with 25 years' experience of the trade, dispensing/unqualified. Ten years' works control tablet and pill manufacture, costing and sales experience. Open to offers as sales representative in Midlands (possessing own car), or inside position in accordance with previous experience. Box C 6366.

REPRESENTATIVE with 25 years' London experience, well known to most of the buyers, wholesale and retail references of the highest integrity. Box C 4767.

REPRESENTATIVE, over twenty years' experience selling packed goods and sundries to South Wales chemists desires change. Box C 4752.

YORKSHIRE AREA, energetic representative with 14 years' experience on the ground open to develop manufacturers' connection on commission basis. Box C 4653.

AGENCIES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

**4 MILLION NEW CUSTOMERS
IN DENMARK!**

Manufacturing chemists established Copenhagen, marketing international toilet and pharmaceutical preparations, offer their services to British firms interested in Danish market. Please write Box C 6368.

AGENTS REQUIRED by well-known manufacturers of paper products for following territories: London and Home Counties, Midlands, Lancs, Yorks, West of England, East Anglia. Must have good connection wholesalers, retailers, multiples, Co-ops. References essential. Box AC 81768, Samson Clarks, 57/61 Mortimer Street, W.1. C 157

ALPINE SUNGLASSES have the following areas available for well-introduced agents requiring exclusive models for retail chemists, opticians and stores: Eastern Counties, Warwicks, Wores, Staffs, Derbys, Leics, and South Wales. 10 per cent. commission. Deliveries by return. Write in confidence to 22 Wardour St., London, W.1. C 4769

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MITCHELL slow-speed fluid mixer, size $\frac{1}{2}$ h.p., approximate speed 60 r.p.m. Must be in good condition, ready for immediate use. Fair cash price. Advertiser, 191 Latimer Rd., W.10. C 4762

WANTED: Second-hand plant: automatic complete ampouling machine, single phase 220-250 volts a.c., 10-20 cu. ft. gas or electrically heated autoclave; small electric or gas sterilising oven, 80-100 quart Hobart or similar mixer. Apply to Biorex Laboratories, Ltd., 47 Exmouth St., E.C.1. Phone: Terminus 5216. C 6380

WANTED, ampoule filling, cutting, washing machinery, and still for distilled water, gas heated. Large autoclave gas or electrically heated, 80 to 100 quart mixer, Hobart or Peerless type. Apply, with full particulars to Biorex Laboratories, Ltd., 47-51 Exmouth St., London, E.C.1. C 6337

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